Table of Contents

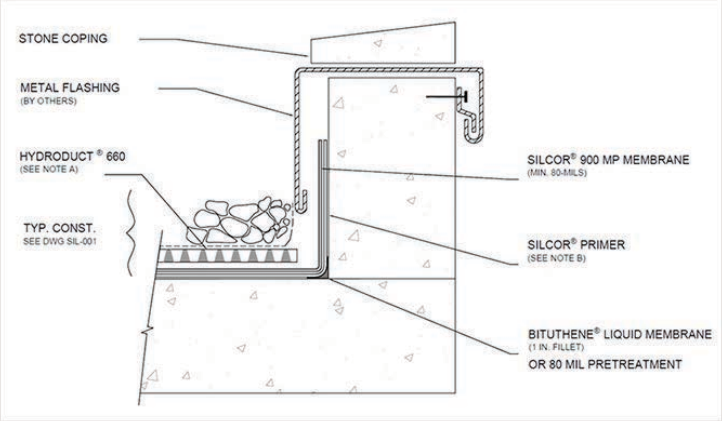
SILCOR® 900MP Data Sheet

Rapid-set, spray-applied, liquid waterproofing membrane for podium decks, green roofs, and terraces.

Certified to NSF/ANSI/CAN 61 – 5

Product Description

SILCOR® 900MP waterproofing is a premium performance, two-component, spray-applied, seamless waterproofing membrane that cures within two minutes to form a high-strength, elastomeric, and fully-bonded waterproof membrane. SILCOR® 900MP waterproofing is extremely durable, with excellent wear and chemical resistance, and does not normally require additional protection against mechanical damage.



Details shown are typical illustrations only and not working drawings. For assistance with working drawings and additional technical advice please contact GCP Technical Services.

Product Advantages

- Fast Cure –Accepts foot traffic after two minutes.
- Seamless – Continuous waterproofing integrity.
- Productivity – Spray-applied for maximum coverage per day.
- Fully bonded – Resists water tracking beneath the membrane.
- Non-flammable– Low VOC.
- Low Odor
- Elastomeric – Accommodates movement and bridges concrete shrinkage cracking.
- Durable – Tough, with excellent wear and damage resistance.
- Chemical Resistance

- **NSF Certified (Drinking Water System Components Certification)** – SILCOR® 900MP is certified for use with SILCOR® Primer EPF in accordance with NSF/ANSI/CAN 61.
- **UL Certified** Underwriter's Laboratory (UL) Classification for various assemblies under TGFU.R7910
-

Principal Applications

New and remedial waterproofing for:

- Plaza decks
- Split slabs
- Green roofs
- Planters
- PRMA

Design

The SILCOR® 900MP spray-applied waterproofing system is designed for use as a fully adhered waterproofing layer on new and existing elevated structural decks. Best practice is to slope structural decks to drain a minimum of ⅛ inch per feet.

System Components

- SILCOR® 900MP – Premium performance, two-component, spray-applied seamless waterproofing membrane.
- SILCOR® Primer EPF – Two-component epoxy primer (for temperatures 40°F-80°F).
- BITUTHENE® Liquid Membrane – Two-component elastomeric, liquid-applied detailing accessory.
- PREPRUFE® Tape – Reinforced, pressure-sensitive tapes for detailing.

Installation

SILCOR® 900MP liquid waterproofing should be applied by experienced, trained contractors. Effective liquid waterproofing application starts with a good surface preparation of the substrate.

Surface Preparation

All grease, curing agents, oils, or other contaminants that can affect adhesion of the membrane to the surface need to be removed prior to application. Grease, dirt, and grime can be removed using high-pressure water cleaning, provided sufficient time is allowed for the residual humidity and water to dissipate before application. Sandblasting is not effective on contaminated concrete. After cleaning, the surface needs to be prepared to open the pores and make the surface ready to accept the primer. The preferred and most common method is sand or grit blasting.

Concrete must be allowed to cure for at least 28 days. Concrete should have at least an 115 psi cohesive strength. Concrete surface moisture content must be less than 5% prior to application of SILCOR®primers. Moisture content must be checked using appropriate meters and test methods.

Priming

Priming should be completed prior to applying SILCOR® 900MP.

- Add the complete B-component to the A-component to ensure a correct mixing ratio.
- Mix with a slow turning mixer (less than 300 rpm) for three minutes in order to obtain a homogeneous mixture.
- Apply primers to the surface by brush or roller, immediately after mixing.
- Pour the primer onto the surface in a zigzag pattern.
- After pouring onto the surface, the primer shall be evenly distributed onto the surface with foam rubber squeegees and rolled using Perlon rollers.
- The primer shall be evenly distributed at 10-mils thickness with complete coverage of the surface. If the surface is very porous and absorbs primer to the extent that the primer is less than 10-mils thick, additional primer should be added in this area within the pot life or recoat time of the primer. Heat is generated when components A and B are mixed. Care should be taken if excess material is left in the mixing container and not distributed onto the surface.
- The SILCOR® membrane shall be applied after initial primer curing but within 24-hours. This window is influenced by ambient temperature and humidity. If this time is exceeded before the membrane is applied, re-apply a new layer of SILCOR® primer.

For complete descriptions and instructions on using SILCOR® primers, consult separate technical data sheets.

Spray Equipment and Temperature

SILCOR® membranes are rapid setting, high performance materials designed to be used with high-pressure proportioners such as Graco® Reactor E-XP2, H-XP2, and H-XP3 or similar high-pressure plural component spraying equipment. Both Part A and Part B components are supplied directly from drums with diaphragm or T-pumps, ensuring a continuous flow of material to the machine. Due to the high reactivity of the system, components are kept separately until they reach the spray gun mixing chamber. The components are designed for a 1:1 mixing ratio by volume. The 1:1 volume mixing ratio shall be maintained at a tolerance of +/- 2%. See your equipment manufacturer for appropriate air compressor and electrical power specifications and settings.

Substrate temperature should be between 40°F and 175°F and exceed the dew point temperature by a minimum of 5°F. Can be installed down to 20°F. Please contact GCP's Technical Service when installation below 40°F is anticipated.

SILCOR® resin (Part B) components are pigmented and need to be mixed before application with an air driven corkscrew-type mixer or similar. Mix at low speed to avoid air entrapment until a homogeneous color is obtained. After mixing, keep the Part B component agitated using a slow turning mixer in the drum during spray application using the 3-bung lid. SILCOR® isocyanate (Part A) components are supplied ready to use and do not need pre-mixing.

Both Part A and B are moisture-sensitive and need to be protected from all sources of moisture.

SILCOR® 900MP Spray Application

SILCOR® membranes are sprayed multi-directionally (up-down / left right) in several passes to obtain uniform coverage and membrane thickness. The spray gun is held perpendicularly to the substrate at a distance of 24 to 36 inches. When applying, care is required at the overlap to ensure even coverage of the overlap area. Spray-applied SILCOR® membranes should be applied at a minimum thickness of 80-mils. In order to achieve uniform membrane thickness, a smooth and constant gun speed is required by the gun operator.

Laps

When applying the SILCOR®membrane over previously installed and cured SILCOR®membrane, wait 24 hours before application. Abrade using mechanical means (a minimum of 6 inches) onto the existing SILCOR®, solvent wipe the abraded area, and lap the new SILCOR® membrane over the area. When a visible color change after exposure has occurred, a level of mechanical abrasion is required to reveal the original color of the SILCOR® membrane prior to solvent wiping and lapping the new SILCOR® membrane.

Repairs

Any damaged or unbonded SILCOR® membrane should be removed to expose the original substrate and SILCOR® primer. The existing SILCOR® membrane should be abraded at a minimum 6 inches past the damaged area in all directions, including any SILCOR® primer that is remaining on the exposed substrate. Abrading must reveal the original color of the SILCOR® membrane. Solvent wipe the prepared areas and apply SILCOR® primer only to exposed portions of the substrate. After the SILCOR® primer cures, clean the surrounding abraded SILCOR® membrane with solvent and immediately after flash off of solvent, installation of the new SILCOR® membrane shall occur, ensuring it extends a minimum of 6 inches onto the abraded, pre-existing SILCOR® membrane. It is recommended that the perimeter of the repair area be taped off to provide a clean termination at the required 80-mil thickness.

Detailing

For complete detailing instructions, refer to SILCOR® 900MP standard details.

Drinking Water System Components Certification

SILCOR® 900MP is certified for use with SILCOR® Primer EPF in accordance with NSF/ANSI/CAN 61 when installed in a tank (min. 500 gallons) with a maximum dry film thickness of 80 mils per coat.

Limitations

Apply SILCOR® 900MP directly to structural surfaces. Do not apply SILCOR® 900MP over lightweight insulating concrete. Insulation, if used, must be installed over the membrane.

The SILCOR® membrane is not intended for permanent exposure. SILCOR® 900MP liquid waterproofing, at recommended thickness, can be exposed for a maximum of 180-days prior to overburden installation. If exposure time is expected to exceed the recommended duration, the SILCOR® membrane must be temporarily protected until overburden is installed.

SILCOR® 900HA should not be used with SILCOR® 900MP. If repairs to SILCOR® 900MP cannot be completed with SILCOR® 900MP, please contact your local GCP technical representative.

Safety and Handling

Read and understand the product label and safety data sheet (SDS) for each system component. All users should acquaint themselves with this information prior to working with the products and follow the precautionary statements.

Supply

	UNIT OF SALE
SILCOR® 900MP (resin)	400 lb - 55 gal drum
SILCOR® 900MP (iso)	495 lb - 55 gal drum
SILCOR® Primer EPF (Part A)	7.1 lbs pail - approx. 0.7 gal
SILCOR® Primer EPF (Part B)	4.0 lbs pail - approx. 0.5 gal
Storage	Store between 40°F & 80°F
Shelf Life - SILCOR® 900MP	12 months

Physical Properties

	TYPICAL VALUE	TEST METHOD
Tensile Strength	4090 psi	ASTM D412
Tear Resistance	487 lb/in.	ASTM D751
Adhesion to Concrete	479 psi[1]	ASTM D4541
Low Temperature Crack Bridging	Pass	ASTM C836
Shore Hardness	91A	ASTM 2240

Footnotes:

1. Tested on prepared, primed, and sand blended concrete or steel.

2. H18/1000 cycles/1000g

Liquid Properties

	TYPICAL VALUE	TEST METHOD
Viscosity - Resin	400-600 cps[1]	Brookfield Viscometer
Viscosity - Iso	800-1200 cps[1]	Brookfield Viscometer
Density (Resin, Iso)	8.6 lb/gal 9.2 lb/gal	ASTM D4541
Coverage Rate (80 mil thickness)	16.4 ft^2/gal 1800 ft^2/kit	internal
Gel Time	5 sec[1]	internal
Tack Free Time	8 sec[1]	internal
Trafficable (foot traffic)	2 mins[1]	internal

Footnotes:

1. Measured at 77ºF

All declared values shown in this data sheet are based on test results determined under laboratory conditions and with the product sample taken directly from stock in its original packing without any alteration or modification of its component parts.

GCP Applied Technologies Inc., 2325 Lakeview Parkway, Suite 450, Alpharetta, GA 30009, USA

GCP Canada, Inc., 294 Clements Road, West, Ajax, Ontario, Canada L1S 3C6

Last Updated: 2022-12-08

SILCOR® Primer EPF Data Sheet

Two component, fast curing epoxy resin primer for use with SILCOR® liquid waterproofing membranes

Product Description

SILCOR® Primer EPF is a two-component fast curing, short recoat time epoxy primer for concrete substrates specifically designed for SILCOR® liquid waterproofing membranes.

Product Advantages

- Can be placed over green concrete or 7 days cure concrete, when it is used with SILCOR® 900MP
- Fast curing with short recoat time
- Excellent adhesion exceeds concrete cohesive strength
- Easy to apply by roller or brush
- Easy to use multi-purpose primer

Installation

1. Surface Preparation

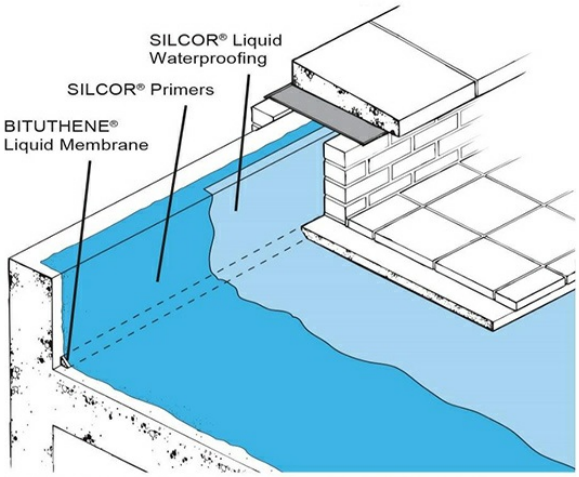
- Minimum pull-off adhesion strength of the concrete substrate as determined by ASTM D4541 or ASTM D7234 shall be115 psi for limited access roofs and 215 psi for vehicular trafficked decks. Where these values are not achieved by pull-off adhesion testing, remove all laitance by shot blasting.
- Surfaces must be clean, sound, free of dust, laitance, sealers, grease or any other contaminants that might reduce adhesion.
- If power washing the substrate, allow sufficient time for the residual humidity to dissipate. The substrate moisture content before application of the primer must be less than 5%. The primer surface before application of SILCOR® liquid membrane must be clean and dry.
- For further details concerning surface preparation guidelines and primer choice, refer to the SILCOR® Application Manual.

2. Mixing

- Store SILCOR® Primer EPF in a dry and cool place out of direct sunlight.
- Add the complete quantity of the B-component to the A-component to assure correct mixing ratio.
- Mix with a slow turning mixer (less than 300 rpm) for 3 minutes in order to obtain a homogeneous mixture.

3. Application

- The application temperature range is 40°F to 80°F. Higher temperatures reduce the pot-life considerably. . Can be installed down to 20°F. Please contact GCP's Technical Service when installation below 40°F is anticipated.
- Apply SILCOR® Primer EPF to the surface by brush or roller immediately after mixing ensuring coverage of the entire surface.
- Pour the primer onto the surface in a zigzag pattern.
- After pouring onto the surface, distribute the primer evenly with foam rubber squeegees and roll using Perlon rollers.
- The primer should be evenly distributed at 10 mils thickness with complete coverage of the surface.
- If the surface is very porous and absorbs primer to the extent that open surface remains additional primer must be added in this area within the pot life or recoat time of the primer.
- When excessive vapor drive is observed, resulting in pin holes in the primer, re-apply a new layer of SILCOR® Primer EPF.



Details shown are typical illustrations only and not working drawings. For assistance with working drawings and additional technical advice please contact GCP Technical Services.

4. Curing

- The SILCOR® membrane should be applied within 24 hours after primer application. This window is influenced by ambient temperature and humidity.
- SILCOR® Primer EPF can be filled with dry, washed quartz silica sand (20/40 mesh) to make a scratch coat for repairing and leveling small surface defects before the application of the membrane.

5. Cleaning

- Mixing and application equipment should be cleaned immediately with mineral spirits. Remove hardened material mechanically. All solvents should be used only in accordance with manufacturer's recommendations. Do not use solvents to clean hands or skin.

Supply

	APPROX. UNIT OF SIZE
SILCOR® Primer EPF Part A	0.7 gal
SILCOR® Primer EPF Part B	0.5 gal

Liquid Properties

PROPERTY	TYPICAL VALUE
Adhesion to concrete	concrete cohesive strength
Density	9.1 lbs/gal
Viscosity (mixed A+B) 68°F	600 centipoise
Pot Life 68°F	20 min
Touch dry 68°F	2 hours
Full cure	7 days
Recoat window 68°F	2-24 hours
Min. substrate application temperature	40°F

Coverage

Approximately 125 ft2/gal (150 sqf/kit), actual will vary depending on the absorption and profile of the surface.

Storage

SILCOR® Primer EPF should be stored under cover, protected from moisture in original sealed containers above 40°F (5°C) and below 80°F (25°C) or crystallization may occur. Shelf life is 2 years in unopened containers stored under the conditions described above.

Health and Safety

Read the product label and Safety Data Sheets (SDS) (SDS A) (SDS B) before use. SDSs can be obtained from GCP Applied Technologies.

GCP Applied Technologies Inc., 2325 Lakeview Parkway, Suite 450, Alpharetta, GA 30009, USA

GCP Canada, Inc., 294 Clements Road, West, Ajax, Ontario, Canada L1S 3C6

Last Updated: 2022-12-08
gcpat.com/solutions/products/silcor-900-series-liquid-waterproofing/silcor-primer-epf

SILCOR® Fast Set Primer Data Sheet

Two component, low viscosity urethane primer for sprayable primer use with Silcor 900MP only.

Product Description

SILCOR® Fast Set Primer is a two-component fast curing, short recoat time urethane primer for concrete substrates specifically designed for the SILCOR®900MP liquid waterproofing membranes.

Product Advantages

- Fast curing with short recoat time : Minimum 20 minute recoat time at 70°F (21°C)
- Easy to apply by spray or roller or brush
- Convenient for large size jobs (10 gallon kit)
- Simple mix ratio (1:1 ratio by volume)
- Excellent adhesion exceeds concrete cohesive strength
- Can be applied easily from 40°F to 100°F (4-38°C)
- Can be applied over wood, concrete and steel after relevant prep of substrates

Installation

1. Surface Preparation

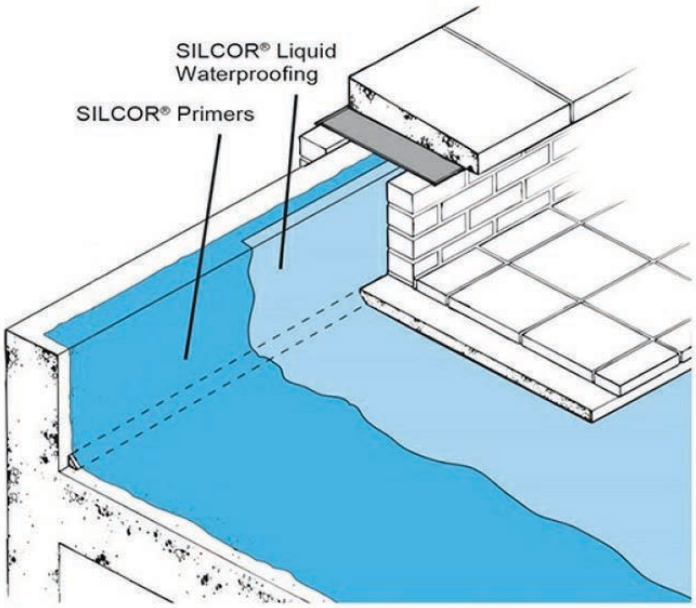
- Minimum pull-off adhesion strength of the concrete substrate as determined by ASTM D4541 or ASTM D7234 shall be115 psi for limited access roofs and 215 psi for vehicular trafficked decks. Where these values are not achieved by pull-off adhesion testing, remove all laitance by shot blasting.
- Surfaces must be clean, sound, free of dust, laitance, sealers, grease or any other contaminants that might reduce adhesion.
- If power washing the substrate, allow sufficient time for the residual humidity to dissipate. The substrate moisture content before application of the primer must be less than 5%. The primer surface before application of SILCOR® 900MP liquid membrane must be clean and dry.

2. Mixing

- Store SILCOR® Fast Set Primer in a dry and cool place out of direct sunlight.
- Add the complete quantity of the B-component to the A-component to assure correct mixing ratio.
- Mix with a slow turning mixer (less than 300 rpm) for 3 minutes in order to obtain a homogeneous mixture.

3. Application

- The application temperature range is 40°F to 100°F. Higher temperatures reduce the pot-life considerably.
- Apply SILCOR® Fast Set Primer to the surface by brush or roller immediately after mixing ensuring coverage of the entire surface.
- Pour the primer onto the surface in a zigzag pattern.
- After pouring onto the surface, distribute the primer evenly with foam rubber squeegees and roll using Perlon rollers.
- The primer should be evenly distributed at 10 mils thickness with complete coverage of the surface.
- If the surface is very porous and absorbs primer to the extent that open surface remains additional primer must be added in this area within the pot life or recoat time of the primer.



Details shown are typical illustrations only and not working drawings. For assistance with working drawings and additional technical advice please contact GCP Technical Services.

4. Curing

- The SILCOR® 900MP membrane should be applied within 24 hours. This window is influenced by ambient temperature and humidity. When this time is exceeded before the membrane is applied, re-apply a new layer of SILCOR® Fast Set Primer.

Recoat Times

- SILCOR® Fast Set Primer has excellent wetting and soaks into the concrete surface, tack free time is not a good indicator for recoat time. GCP recommends recoat time with adhesion strength testing according to ASTM D4541.

Ambient & Substrate Temperature	Minimum Recoat Time
95°F (35°C)	10 minutes
70°F (21°C)	20 minutes
40°F (4°C)	30 minutes

5. Cleaning

- Mixing and application equipment should be cleaned immediately with mineral spirits. Remove hardened material mechanically. All solvents should be used only in accordance with manufacturer's recommendations. Do not use solvents to clean hands or skin.

Supply

10 GALLON KIT	APPROX. UNIT OF SIZE
SILCOR® Fast Set Primer Part A	5 gal (iso)
SILCOR® Fast Set Primer Part B	5 gal (resin)

Typical Properties

PROPERTY	TYPICAL VALUE
Solid Contents	96.4% ASTM D2369
Working Time, cup, 70°F (21°C)	20 minutes
Concrete Adhesion	1,000 psi (6.9 MPa) or substrate failure ASTM D4541
Steel Adhesion	1,000 psi (6.9 MPa) or substrate failure ASTM D4541
Mix Ratio (by Volume)	1:1

Coverage

Approximately 192 ft^2/gal (1,920 sqft/10 gallon kit), actual will vary depending on the absorption and profile of the surface.

Storage

SILCOR®Fast Set Primer should be stored and shipped in clean, dry, low-humidity, and shaded or covered environments in original sealed containers between 50°F (10°C) and 90°F (32°C). Shelf life is 1 year in unopened containers stored under the conditions described above.

Health and Safety

Read the product label and Safety Data Sheets (SDS) (SDS A) (SDS B) before use. SDSs can be obtained from GCP Applied Technologies.

GCP Applied Technologies Inc., 2325 Lakeview Parkway, Suite 450, Alpharetta, GA 30009, USA

GCP Canada, Inc., 294 Clements Road, West, Ajax, Ontario, Canada L1S 3C6

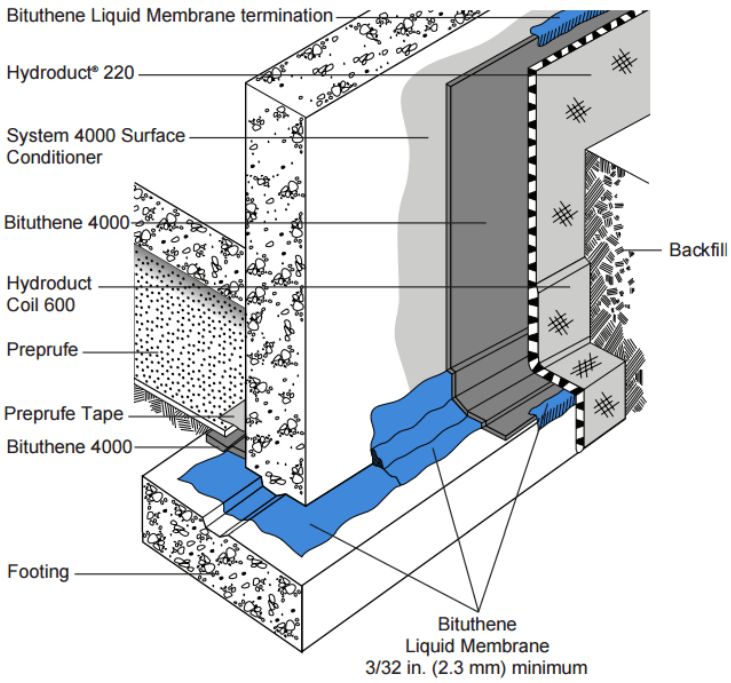
Last Updated: 2022-12-08

BITUTHENE® Liquid Membrane Data Sheet

Two component, elastomeric, liquid applied detailing compound for use with GCP waterproofing membranes

Product Description

BITUTHENE® Liquid Membrane is a two component, elastomeric, cold applied, trowel grade material designed for a variety of uses with the GCP waterproofing systems. The VOC (Volatile Organic Compound) content is 10 g/L. Architectural and industrial maintenance regulations limit the VOC content in products classified as architectural coatings. Refer to Technical Letters for the most current list of allowable limits.



Product Advantages

- Liquid applied
- Waterproof
- Tough, rubber-like
- Chemically cured
- Cold applied
- System compatible

Use

BITUTHENE® Liquid Membrane is ideally suited for the following uses:

- Fillet material at inside corners
- Reinforcement material at inside corners
- Flashing material around drains, protrusions, curbs and parapets
- Sealing material at terminations
- Repair material for defects on concrete surfaces
- Flashing material at corners

The two parts of BITUTHENE® Liquid Membrane are mixed on site and troweled on to provide a simple and quick waterproofing detailing aid in conjunction with BITUTHENE®, PREPRUFE® and PROCOR® systems.

Compatibility

BITUTHENE® Liquid Membrane is completely compatible with BITUTHENE®, PREPRUFE® and PROCOR®, and with existing asphalt or coal tar-based waterproofing materials. It is also compatible with cured silicone and polyurethane sealants. It is not compatible with creosote, pentachlorophenol, linseed oil or polysulfide-based sealants.

Supply

BITUTHENE® Liquid Membrane (Parts A & B)		
Unit size	1.5 gal (5.7 L)	4 gal (15.1 L)
Net weight per unit	16 lbs (8 kg)	44 lbs (20 kg)
Units per pallet	100	24

Physical Properties

PROPERTY	TYPICAL VALUE	TEST METHOD
Part A Color	Black	
Part B Color	Clear	
Mixture of Parts A and B Color	Black	
Solids content	100%	ASTM D1644
Elongation	250% minimum	ASTM D412
Peel strength	5 lbs/in. (880 N/m) minimum	ASTM D903
Flexibility, 180° bend over 1 in. (25 mm) mandrel at -25°F (-32°C)	Unaffected	ASTM D1970

Application Procedures

Safety, Storage and Handling Information

BITUTHENE® products must be handled properly. Vapors from solvent based primers and mastic are harmful and flammable. For these products, the best available information on safe handling, storage, personal protection, health and environmental considerations has been gathered. Safety Data Sheets (SDS) are available on the web site and users should acquaint themselves with this information. Carefully read detailed precaution statements on product labels and the SDS before use.

Surface Preparation

All surfaces must be dry and free from dirt, grease, oil, dust or other contaminants. BITUTHENE® Liquid Membrane may be applied at temperatures of 25°F (-4°C) or above. Store in a dry place above 40°F.

Mixing

Add the entire contents of the Part B container to Part A and mix for 3 to 5 minutes until uniform. Part A is black and Part B is clear. Take care to scrape material from the side and bottom of the containers to ensure thorough mixing. A low speed (150 rpm) mechanical mixer with flat paddle blades is required. Do not apply any material if streaks can be seen due to insufficient mixing. Once mixed, BITUTHENE® Liquid Membrane must be applied by trowel within 1.5 hours. More time is available at lower temperatures.

At high temperatures, thickening and curing will be faster. Material that has thickened must be discarded. The material will cure to a very flexible rubber-like material.

BITUTHENE® Liquid Membrane must be applied at a minimum thickness of 3⁄16 in. (2.3 mm) unless otherwise noted on details. 32 In fillet applications, the face of the fillet should be a minimum of ¾ in. (20 mm). In corner flashing application details, it should extend 6 in. (150 mm) in each direction from the corner. BITUTHENE® Liquid Membrane will adhere to primed or unprimed concrete.

BITUTHENE® Liquid Membrane should be allowed to cure at least 24 hours before flood testing.

Coverage

As a fillet material, 1 gal (3.8 L) will cover approximately 100 linear feet (30 m). As a flashing material, 1 gal (3.8 L) will cover approximately 17 f^2 (1.6 m^2). As a fillet and reinforcement, 1 gal (3.8 L) will cover approximately 14 linear feet (4.3 m).

Cleaning

Clean tools and equipment with mineral spirits before BITUTHENE® Liquid Membrane has cured. Mineral spirits is a combustible liquid and should be used only in accordance with the manufacturer's safety recommendations. Do not use solvents to clean hands or skin.

GCP Applied Technologies Inc., 2325 Lakeview Parkway, Suite 450, Alpharetta, GA 30009, USA

GCP Canada, Inc., 294 Clements Road, West, Ajax, Ontario, Canada L1S 3C6

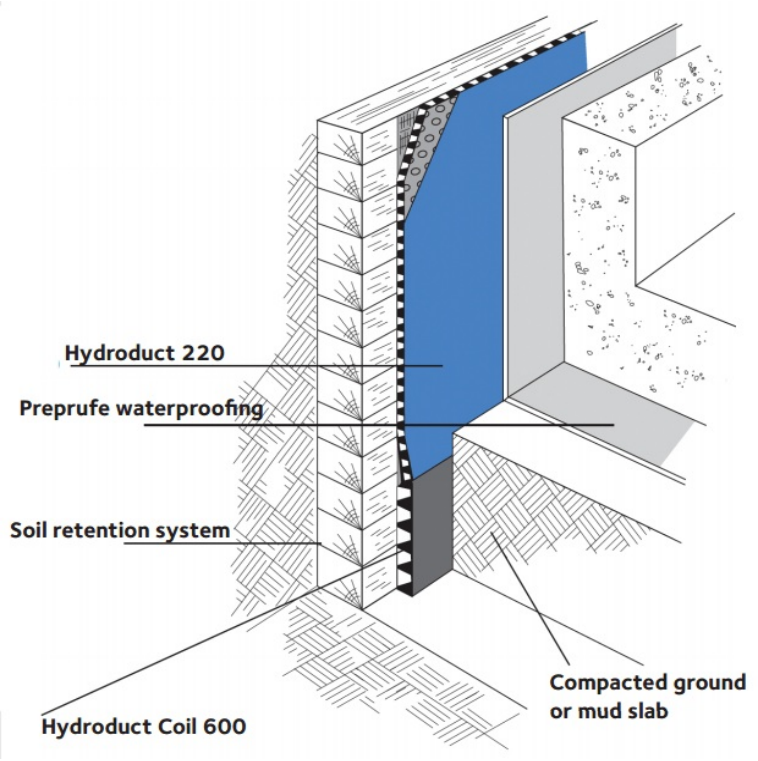
Last Updated: 2022-12-06

HYDRODUCT® 220 Data Sheet

Drainage composite for use as a combined drainage and protection layer with GCP waterproofing membranes

Product Description

HYDRODUCT® 220 is a strong, preformed 0.44 in. (11 mm) thick geocomposite drainage sheet system, comprising a hollow studded polypropylene core, covered on one side with a nonwoven, needle punched polypropylene filter fabric and on the other side with a smooth polymeric film.



Uses

HYDRODUCT® 220 is designed primarily for use with waterproofing materials in vertical installations.

HYDRODUCT® 220 has been specially developed to provide a simple and highly practical collector and deflector of unwanted ground water on foundation walls, retaining walls, tunnels and planters. It can be used with PREPRUFE®, PROCOR®, or BITUTHENE® waterproof membranes. When installed it protects the membrane from damage and minimizes the build-up of percolated surface water against the structure. The construction of the studded sheet also creates an air void to isolate the structure from the effects of the surrounding ground.

HYDRODUCT® 220 has been designed to withstand ground pressures and the compaction forces of wet concrete to maintain a high water flow capacity. The drainage sheet must be connected into the site drainage system to minimize hydrostatic build-up and collect infiltrated water using HYDRODUCT® Coil 600 or traditional perforated pipes wrapped and linked with the geotextile filter fabric to prevent clogging.

Product Advantages

- Enhances waterproofing—eliminates hydrostatic pressure build-up
- Efficient water collector/deflector—can be used as a sandwich drainage layer between lagging and the reinforced concrete structure
- Smooth polymeric sheet—compatible with PREPRUFE® , PROCOR® , or BITUTHENE® membranes Simple
- Convenient drainage and protection layer—serves as robust membrane protection and drainage
- Geotextile fabric filter—allows ground water to pass into the drain core while restricting the movement of soil particles
- High flow capacity
- Rot proof—unaffected by permanent immersion in water, bacteria, dilute acids and alkalis
- Economical—eliminates imported aggregate drainage layers
- Studded core—allows water to flow to designated drainage collection points

Application Procedures

Safety, Storage and Handling Information

All construction products must be handled properly. Safety Data Sheets (SDS) are available and users should acquaint themselves with this information. Carefully read detailed precaution statements on product labels and the SDS before use.

Installation

Position HYDRODUCT® so that the geotextile fabric filter is facing toward the groundwater, soil or overburden. The solid polymeric film provides extra protection for waterproofing such as PROCOR® or BITUTHENE® and should not be removed. In vertical applications, HYDRODUCT® 220 Drainage Composites can be applied to the substrate vertically but should extend from the perimeter discharge pipe to a point approximately 6 in. (150 mm) below the anticipated grade line.

When adhering HYDRODUCT® 220 directly to BITUTHENE® waterproofing membranes, PREPRUFE® Detail Tape should be used. When using PREPRUFE® Detail Tape, press firmly to ensure good adhesion.

Substrate and job site conditions will determine the attachment pattern. Additional consideration should be given in high wind exposures. Abut adjacent rolls with excess fabric overlapping in shingle fashion.

For inside and outside corners, abut adjoining drainage composite at the corner. Cover open core with extra geotextile filter fabric. The exposed core along the top terminations should be covered with a strip of geotextile to prevent intrusion of soil into core. At the bottom termination extend the HYDRODUCT® 220 Drainage Composite out from the structure so that it passes behind and under the perimeter discharge pipe. Additional geotextile should be wrapped over the pipe to prevent soil intrusion.

To secure HYDRODUCT® 220 around protrusions, apply PREPRUFE® Detail Tape around the protrusion in a picture frame configuration. Cut HYDRODUCT® 220 to fit snugly around the protrusion. Press the cut edge firmly into PREPRUFE® Detail Tape.

HYDRODUCT® 220 should be covered promptly. Do not leave HYDRODUCT® 220 exposed to sunlight for more than two weeks.

Motor vehicles, construction equipment or other trades should not be allowed directly on the HYDRODUCT® 220.

Supply

HYDRODUCT®	
Roll size	4 ft x 50 ft (1.2 m x 15.2 m) 200 ft^2 (18.6 m^2)
Packaging	6 rolls/pallet
Weight	39 lbs (17.7 kg)/roll
Complimentary Materials	
PREPRUFE® Detail Tape	2 in. x 50 ft (50 mm x 15 m) rolls

Physical Properties

PROPERTY	TYPICAL VALUE	TEST METHOD
Drainage Core		
Thickness	0.40 in. (10 mm) nominal	ASTM D1777
Compressive strength	15,000 lbs/ft^2 (718 kPa)	ASTM D6364
Flow rate (gradient 1.0,)	18 gal/min./ft (224 L/min./m)	ASTM D4716
Geotextile	**Typical Value**	**Test Method**
Tensile strength	100 lbs (445 N)	ASTM D4632
Apparent opening size	70 U.S. sieve (0.21 mm)	ASTM D4751
Flow rate	165 gal/min./ft^2 (6724 L/min./m^2)	ASTM D4491
CBR puncture	275 lbs (1.23 kN)	ASTM D6241

GCP Applied Technologies Inc., 2325 Lakeview Parkway, Suite 450, Alpharetta, GA 30009, USA

GCP Canada, Inc., 294 Clements Road, West, Ajax, Ontario, Canada L1S 3C6

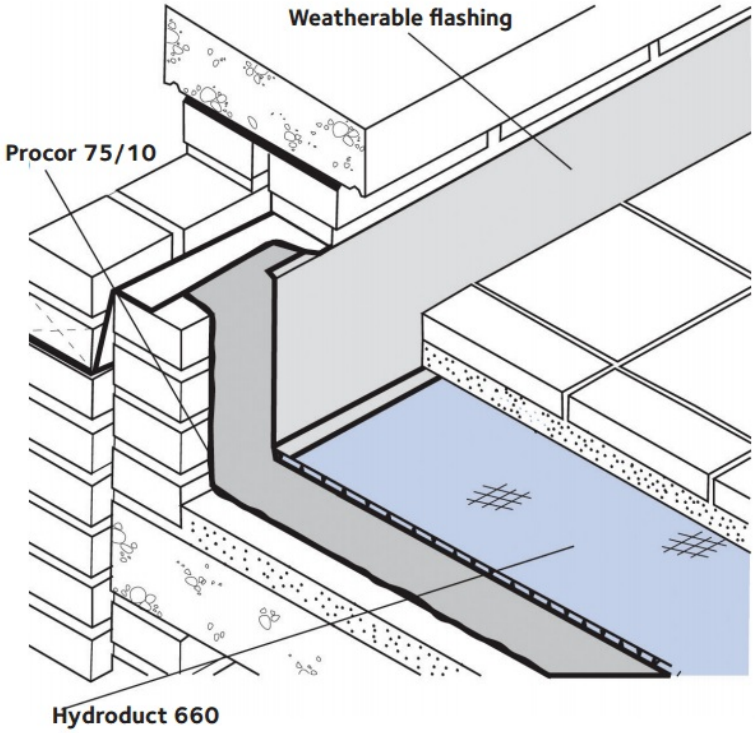
Last Updated: 2023-02-28
gcpat.com/solutions/products/hydroduct-drainage-composite/hydroduct-220

HYDRODUCT® 660 Data Sheet

High impact, creep-resistant drainage composite and protection layer for use with GCP waterproofing membranes in all horizontal applications

Product Description

HYDRODUCT® 660 is a highly robust, preformed, 0.44 in. (11 mm) thick geocomposite drainage sheet system, comprising a heavy duty, studded polypropylene preformed membrane. This is covered on one side with a nonwoven, needle punched polypropylene filter fabric and on the other side with a smooth polymeric film. This film allows the HYDRODUCT® 660 to be placed against waterproofing membrane and should not be removed.



Uses

HYDRODUCT® 660 Drainage Composite is designed to collect and transport water to drainage outlets. It can be used on all horizontal applications regardless of the type of overburden and serves as a combination drainage and protection course for all GCP waterproofing membranes.

The high strength, nonwoven geotextile is designed to maintain permeability while protecting the drainage composite from job site damage prior to, and during, the installation of the overburden. The high permittivity of the nonwoven geotextile facilitates the removal of water from a concrete pour, thus enhancing the concrete cure, as well as providing drainage after installation. The geotextile is securely bonded to the core to prevent intrusion of the fabric into the core during service. The high modulus backing film ensures compatibility when used with either PROCOR® fluid applied waterproofing membranes, or with BITUTHENE® waterproofing membranes.

Product Advantages

- Universal horizontal application—suitable for all overburdens including concrete
- Damage and creep-resistant—high compressive strength core resists traffic loads and site damage to maintain drainage flow
- High flow capacity
- Enhances waterproofing—eliminates hydrostatic head build up
- Securely bonded fabric—restricts intrusion into core Polymeric backing film—compatible with both sheet and liquid waterproofing membranes
- Lightweight—easy to install without special equipment
- Simple, convenient, drainage and protection layer—robust membrane protection

Application Procedures

Safety, Storage and Handling Information

All construction products must be handled properly. Safety Data Sheets (SDS) are available and users should acquaint themselves with this information. Carefully read detailed precaution statements on product labels and the SDS before use.

Installation

HYDRODUCT® 660 can be placed over waterproofing membranes, concrete or wood providing job site conditions allow the composite to remain as placed. Additional ballast consideration should be given in high wind exposures. Abut all edges tightly with the excess geotextile placed over the adjacent roll in shingle fashion.

To secure HYDRODUCT® 660 around protrusions, apply PREPRUFE® Detail Tape around the protrusion in a picture frame configuration. Cut HYDRODUCT® 660 to fit snugly around the protrusion. Press HYDRODUCT® 660 core firmly into the PREPRUFE® Detail Tape.

HYDRODUCT® 660 should be covered promptly. Do not leave HYDRODUCT® 660 exposed to sunlight for more than two weeks. Motor vehicles, construction equipment or other trades should not be allowed directly on the HYDRODUCT® 660.

Supply

HYDRODUCT®	
Roll size	4 ft x 50 ft (1.2 m x 15.2 m) 200 ft^2 (18.6 m^2)
Packaging	6 rolls/pallet
Weight	54lbs (24.4 kg)/roll
Complementary Materials	
PREPRUFE® Detail Tape	2 in. x 50 ft (50 mm x 15 m) roll/16 rolls per carton

Physical Properties

PROPERTY	TYPICAL VALUE	TEST METHOD
Drainage Core		
Thickness	0.40 in. (10 mm) nominal	ASTM D1777
Compressive strength	18,000 lbs/ft^2 (862 kPa)	ASTM D6364
Flow rate (gradient 1.0)	21 gal/min./ft (261 L/min./m)	ASTM D4716
Geotextile		
Tensile strength	205 lbs (912 N)	ASTM D4632
Apparent opening size	80 U.S. sieve (0.177 mm)	ASTM D4751
Flow rate	100 gal/min./ft^2 (4075 L/min./m^2)	ASTM D4491
CBR puncture	580 lbs (2.58 kN)	ASTM D6241

GCP Applied Technologies Inc., 2325 Lakeview Parkway, Suite 450, Alpharetta, GA 30009, USA

GCP Canada, Inc., 294 Clements Road, West, Ajax, Ontario, Canada L1S 3C6

Last Updated: 2023-02-28

gcpat.com/solutions/products/hydroduct-drainage-composite/hydroduct-660

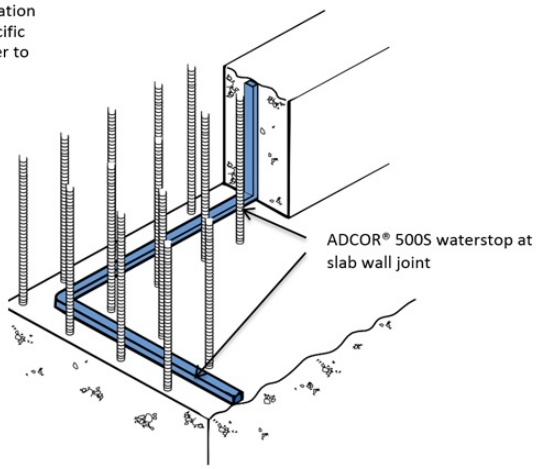
ADCOR® 500S Waterstop Data Sheet

Conformable, hydro-expansive waterstop for preventing water entry through joints in concrete sub-structures

Product Description

GCP Applied Technologies' ("GCP") ADCOR® 500S waterstop is a conformable, butyl rubber-based hydrophilic waterstop strip that expands in contact with water. When fully encapsulated by poured concrete, the expansive forces form a seal against concrete faces. This seal resists hydrostatic pressure, and is specifically engineered to stop water from entering sub-structures. The ADCOR® 500S waterstop is a unique product that has been specifically developed to provide superior performance compared to conventional bentonite and swellable rubber waterstops.

Drawings are for illustration purposes only. For specific application details, refer to gcpat.com.



Applications

- Construction joints in in-situ concrete structures
- Casting new concrete against existing
- Floor slabs cast against diaphragm retaining walls, steel sheet piles and secant piled walls
- Joints between floor slabs and pile caps
- Pipe penetrations through floors and walls

Product Advantages

- Controlled volumetric expansion reduces risk of concrete spalling
- Retains cohesive strength at both original and expanded volume
- Malleable and conformable, enabling easy application to a variety of concrete profiles and a variety of irregular substrates
- Resists at least 231 ft. (70m) hydrostatic pressure.
- Volumetric expansion min 100%

- Simple overlap jointing onsite.
- Reproducible swell after wet – dry cycling
- Unaffected by freeze/thaw cycling

System Components

Waterstop:

- ADCOR® 500S waterstop: a conformable, butyl rubber-based hydrophilic waterstop strip that expands in contact with water

Ancillary Components:

- ADCOR® 500S adhesive: One-component, caulk-applied adhesive required for attachment of the ADCOR® 500S waterstop

Limitations of Use

- Approved uses only include those uses specifically detailed in this Product Data Sheet and other current Product Data Sheets that can be found at gcpat.com.
- ADCOR® 500S waterstop is not intended for any other use. Contact GCP Technical Services where any other use is anticipated or intended.
- To be effective, waterstop networks (including ADCOR® 500S waterstop) must be continuous through all joints and penetrations.
- The ADCOR® 500S waterstop should not be used in movement joints.
- Not suitable for use with pre-cast concrete components.
- Not suitable for use without ADCOR® 500S adhesive. Mechanical fasteners should never be used as the only means of securement.
- Special Note: When this information is printed from the gcpat.com global website, a footer appearing on this document will restrict its applicability to the United States. Note that the information and references in this document are hereby expanded and apply to North, Central and South America.

Safety and Handling

Read and understand the product label and Safety Data Sheet (SDS) for each system component. All users should acquaint themselves with this information prior to working with the products and follow the precautionary statements.

SDSs can be obtained by contacting your local GCP representative or office, by calling GCP toll free at 1-866-333-3SBM (3726) and in some cases from our web site at gcpat.com.

Storage

- Observe one-year shelf life and use on a first in first out basis.
- Store in dry conditions between 40°F (4.5°C)-90°F (32°C).
- Store off ground under tarps or otherwise protected from rain, and all sources of moisture and frost.

Installation

Technical Support, Details and Technical Letters

The most up-to-date detail drawings and technical letters are available at gcpat.com. For complete application instructions, please refer to the current GCP Applied Technologies Contractor Handbook and Literature on www.gcpat.com. Documents in hardcopy as well as information found on websites other than www.gcpat.com may be out of date or in error. Before using this product, it is important that information be confirmed by accessing www.gcpat.com and reviewing the most recent product information, including without limitation Product Data Sheets, Contractor Manuals, Technical Bulletins, Detail Drawings and detailing recommendations.

Support is also available by full-time technically trained GCP Applied Technologies field sales representatives and technical service personnel, backed by a central research and development technical services staff. For technical assistance with detailing and problem solving, please call toll-free at (866) 333-3SBM (3726).

Temperature Requirements (application)

- The ADCOR® 500S waterstop can be applied at temperatures between 25°F and 104°F.

Substrate Preparation

Substrates must be clean and dry, free of all contaminants, such as oil, loose laitance and construction debris prior to the application of the ADCOR® 500S waterstop.

- Concrete surfaces must be sound, and free of large voids and honeycombs.
- Concrete surface must be free from ice, frost and standing water.

Horizontal and Vertical Installation

1. Apply a continuous minimum 3/8" (10 mm) bead of ADCOR® 500S adhesive directly to the concrete substrate, ensuring the minimum 3" (75mm) of concrete cover will be maintained. ADCOR® 500S adhesive can be applied to damp surfaces but should not be used where the substrate is wet or has standing or flowing water.

2. The ADCOR® 500S waterstop must be installed into the ADCOR® 500S adhesive within 30 minutes of the adhesive application.

3. Remove the release paper from the roll of ADCOR® 500S waterstop before firmly pressing the waterstop into the ADCOR® 500S adhesive. Ensure full and continuous contact between the ADCOR® 500S waterstop and the ADCOR® 500S adhesive and substrate.

4. For all shotcrete applications, mechanical fastening is required to ensure full contact remains between the ADCOR® 500S and the ADCOR® 500S adhesive to the substrate. For certain other conditions, such as overhead applications, very irregular substrates or temperatures below 40°F, mechanical fastening may also be necessary.

5. When fastening is necessary, secure ADCOR® 500S to the ADCOR® 500S adhesive and substrate using masonry nails ½ –2 in. (40 mm– 50 mm) long with a washer ¾ in. (20 mm) in diameter. Powder actuated fasteners in similar length with a ¾ in. (20 mm) diameter washers may also be used. Fasteners should be spaced at a maximum of 12 in. (300 mm) on centers or as required to ensure continuous contact with the immediate substrate.

6. All joints should be overlapped side by side at a minimum of 4 in. (100mm). Ensure full contact between jointed pieces of the ADCOR® 500S waterstop.

7. The ADCOR® 500S waterstop can be bent around corners. Ensure that ADCOR® 500S adhesive fills any gaps between the ADCOR® 500S waterstop and the substrate.

8. Any damaged ADCOR® 500S waterstop must be removed and repaired with a new section of ADCOR® 500S waterstop following the above installation procedures

9. Keep the ADCOR® 500S waterstop dry prior to pouring concrete. Any sections showing evidence of premature swelling should be removed and replaced prior to concrete placement.

10. The ADCOR® 500S waterstop must be encapsulated by a minimum of 3 in. (75mm) of concrete cover.

Supply

PRODUCT	
ADCOR® 500S	3/4 in X 1 in X 16½ ft (5m) rolls 6 rolls/carton 30 cartons/pallet Pallet weight 1720 lbs.
ADCOR® 500S adhesive	13.5 oz. (400ml) sausage for caulking gun application

ADCOR® 500S Waterstop: Typical Values

PROPERTY	ADCOR® 500S WATERSTOP
Color	Light blue
Weight	0.5 lb/ft
Density	91 lb/ft^3
Volumetric Expansion in Cement Water	100% min.
Hydrostatic Head Resistance	231 ft (70m)
Service Temperature Range	248°F max.
Application Temperature	25°F (-5°C) – 104°F (40°C)
Minimum Concrete Cover	3in.

Maximum Bend	180° at 32°F (0°C)
Minimum Overlap	4 in (100mm)

GCP Applied Technologies Inc., 2325 Lakeview Parkway, Suite 450, Alpharetta, GA 30009, USA

GCP Canada, Inc., 294 Clements Road, West, Ajax, Ontario, Canada L1S 3C6

Safety Data Sheet

Printing date 01/26/2017 **Version Number 1.0** **Reviewed on 01/26/2017**

*

1 Identification

Product identifier

Trade name: ***Silcor® 900MP NA Part A***

SDS ID Number: 2782

Relevant identified uses of the substance or mixture, and uses advised against
Specialty construction product. Not intended for other uses

Details of the supplier of the safety data sheet

Manufacturer/Supplier:
GCP Applied Technologies
62 Whittemore Avenue
Cambridge, MA 02140 USA

GCP Canada, Inc.
294 Clements Road W.
Ajax, Ontario L1S 3C6 Canada

Information department:

Environmental Health & Safety
USA: +1-617-876-1400 (24 hours)
+1-800-354-5414 (8AM - 5PM) Not functional within Massachusetts
CAN: 1-905-683-8561 (24 hours)
Email address: msds.gcp@gcpat.com

Transport Emergency: Chemtrec +1-800-424-9300 (24 hours)

*

2 Hazard(s) identification

Classification of the substance or mixture

Harmful if inhaled.

Causes skin irritation.

Causes serious eye irritation.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

Suspected of causing cancer.

May cause respiratory irritation.

May cause damage to organs through prolonged or repeated exposure.

Label elements: The product is classified and labeled according to the Globally Harmonized System (GHS)

Hazard pictograms

GHS07 GHS08

Danger

Hazard statements
Harmful if inhaled.
Causes skin irritation.

(Cont. on page 2)

Safety Data Sheet

Trade name: *Silcor® 900 MP Component NA Part A*

(Cont. from page 1)

Causes serious eye irritation.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause an allergic skin reaction.
Suspected of causing cancer.
May cause respiratory irritation.
May cause damage to organs through prolonged or repeated exposure.

Precautionary statements
Wear protective gloves/protective clothing/eye protection/face protection.
In case of inadequate ventilation wear respiratory protection.
Do not breathe dust/fume/gas/mist/vapors/spray.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF ON SKIN: Wash with plenty of water.
IF exposed or concerned: Get medical advice/attention.
Dispose of contents/container in accordance with local/regional/national/international regulations.

NFPA ratings (scale 0 - 4)

Health = 2
Fire = 1
Reactivity = 0

HMIS-ratings (scale 0 - 4)

Health = *2
Flammability = 1
Reactivity = 0

Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.
vPvB: Not applicable.

3 Composition/information on ingredients

Chemical characterization: Mixture

Description: Mixture of the hazardous substance(s) listed below with additional nonhazardous ingredients.

Hazardous components:		
39420-98-9	Modified MDI	50-100%
101-68-8	Diphenylmethane-4,4'-di-isocyanate	20-25%
25686-28-6	4,4'-Methylenediphenyl diisocyanate, oligomers	5-10%
	Reaction mass of 4,4'-Methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate	5-10%

Additional information: Non-hazardous ingredients may be listed in Section 15; Right-To-Know disclosure.

*

4 First-aid measures

Description of first aid measures

General information: Get medical advice/attention if you feel unwell.

After inhalation: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

After skin contact:
Immediately wash contaminated skin with soap or mild detergent and water. If this chemical soaks clothing, immediately remove clothing and wash skin.

After eye contact: Rinse cautiously with water for several minutes.

(Cont. on page 3)

Safety Data Sheet

Trade name: *Silcor® 900 MP Component NA Part A*

(Cont. from page 2)

After swallowing:

Rinse mouth.

Do NOT induce vomiting.
Immediately call a doctor.

Information for doctor:

Most important symptoms and effects, both acute and delayed
Allergic reactions

Irritating to eyes.

Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

Special hazards arising from the substance or mixture
During heating or in case of fire poisonous gases are produced.

Additional information Collect contaminated fire fighting water separately. It must not enter the sewage system.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures
Wear protective equipment. Keep unprotected persons away.

Use respiratory protective device against the effects of fumes/dust/aerosol.

Methods and material for containment and cleaning up:
Dispose contaminated material as waste according to section 13 of the SDS.

Reference to other sections
See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

Handling:
Precautions for safe handling

Prevent formation of aerosols.

Avoid contact with skin.

Avoid contact with eyes.

Information about protection against explosions and fires: Keep respiratorator available.

Conditions for safe storage, including any incompatibilities
Storage:

Information about storage in one common storage facility: Keep respiratorator available.

Further information about storage conditions: Keep receptacle tightly sealed.

Specific end use(s) No further relevant information available.

(Cont. on page 4)

Safety Data Sheet

Trade name: *Silcor® 900 MP Component NA Part A*

(Cont. from page 3)

*

8 Exposure controls/personal protection

Additional information about design of technical systems: No further data; see item 7.

Control parameters

Components with limit values that require monitoring at the workplace:	
101-68-8 Diphenylmethane-4,4'-di-isocyanate	
PEL (USA)	Ceiling limit value: 0.2 mg/m³, 0.02 ppm
REL (USA)	Long-term value: 0.05 mg/m³, 0.005 ppm Ceiling limit value: 0.2* mg/m³, 0.02* ppm *10-min
TLV (USA)	Long-term value: 0.051 mg/m³, 0.005 ppm

Additional information: The lists that were valid during the creation were used as basis.

Exposure controls

Personal protective equipment:

General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Store protective clothing separately.

Breathing equipment:

Control exposure to ingredients with workplace control parameters if mentioned above. If no ingredients are listed, respiratory protection is generally not required.

If exposure limits are listed and may be exceeded, use approved respiratory protective equipment and filter type appropriate for the listed ingredients. (NIOSH, CEN, etc.).

Protection of hands: Protective gloves

Material of gloves Rubber gloves

Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:

Safety glasses with side shield protection.

Body protection:

Use personal protective equipment as required.

Take off contaminated clothing.

9 Physical and chemical properties

Information on basic physical and chemical properties

General Information	
Appearance:	
Form:	Liquid
Color:	Light yellow
Odor:	Characteristic
Odor threshold:	Not determined.
pH-value (~):	Not determined.

(Cont. on page 5)

Safety Data Sheet

Trade name: *Silcor® 900 MP Component NA Part A*

(Cont. from page 4)

Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	>300 °C (>572 °F)
Flash point:	>100 °C (>212 °F)
Flammability (solid, gaseous):	Not applicable.
Decomposition temperature:	Not determined.
Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	0.4 Vol %
Upper:	0.0 Vol %
VOC Content (max):	Not determined.
Vapor pressure:	Not determined.
Density: (~) at 20 °C (68 °F)	1.1 g/cm³ (9.18 lbs/gal)
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.
Partition coefficient (n-octanol/water):	Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Molecular weight	Not applicable.
Other information	No further relevant information available.

10 Stability and reactivity

Reactivity Stable under normal conditions.

Chemical stability

Thermal decomposition: No decomposition if used according to specifications.

Possibility of hazardous reactions No further relevant information available.

Conditions to avoid No further relevant information available.

Incompatible materials: No further relevant information available.

Hazardous decomposition products: Carbon monoxide and carbon dioxide

*

11 Toxicological information

Delayed and immediate effects and chronic effects from short or long term exposure
May cause damage to organs through prolonged or repeated exposure.

Information on toxicological effects

Acute toxicity:

LD/LC50 values relevant for classification:		
101-68-8 Diphenylmethane-4,4'-di-isocyanate		
Oral	LD50	> 10000 mg/kg (rat)
Dermal	LD50	> 9400 mg/kg (rabbit)
Inhalation	LC50, 4h	0.49 mg/l (rat)

(Cont. on page 6)

Safety Data Sheet

Trade name: *Silcor® 900 MP Component NA Part A*

(Cont. from page 5)

Primary irritant effect:

on the skin: Causes skin irritation.

on the eye: Causes serious eye irritation.

inhalation: Harmful if inhaled.

Ingestion:
May cause respiratory irritation.
May cause damage to organs through prolonged or repeated exposure.

Sensitization:

May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause an allergic skin reaction.

Additional toxicological information: Suspected of causing cancer.

Carcinogenic categories

IARC (International Agency for Research on Cancer) Human Carcinogenicity: Group 1- Positive, Group 2A- Probable, Group 2B- Possible, Group 3- Not Classifiable		
101-68-8	Diphenylmethane-4,4'-di-isocyanate	3

NTP (National Toxicology Program) K–Known to be carcinogenic, R–May reasonably be anticipated to be carcinogenic
None of the ingredients is listed.

OSHA-Ca (Occupational Safety & Health Administration)
None of the ingredients is listed.

12 Ecological information

Toxicity

Aquatic toxicity: No further relevant information available.

Persistence and degradability

No further relevant information available.

Behavior in environmental systems:

Bioaccumulative potential No further relevant information available.

Mobility in soil No further relevant information available.

Additional ecological information:

General notes: Not known to be hazardous to water.

Results of PBT and vPvB assessment

PBT: Not applicable.
vPvB: Not applicable.

Other adverse effects

No further relevant information available.

13 Disposal considerations

Waste treatment methods

Comply with Federal, State and local regulations.

Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

(Cont. on page 7)

Safety Data Sheet

Trade name: *Silcor® 900 MP Component NA Part A*

(Cont. from page 6)

Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.

*

14 Transport information

UN-Number
DOT, IMDG, IATA Not applicable.

UN proper shipping name
DOT, IMDG, IATA Not applicable.

Transport hazard class(es)

DOT, IMDG, IATA
Class Not applicable.

Packing group
DOT, IMDG, IATA Not applicable.

Environmental hazards: Not applicable.

Special precautions for user Not applicable.

Transport/Additional information:

DOT
Remarks: Not Regulated.

UN "Model Regulation": Not applicable.

*

15 Regulatory information

SARA (Superfund Amendments and Reauthorization Act)

Section 302/304 (extremely hazardous substances):
None of the ingredients is listed.

Section 313 Reportable Ingredients (Chemicals present below reporting threshold are exempt):

101-68-8	Diphenylmethane-4,4'-di-isocyanate	20.0%

SARA Section 312/Tier I & II Hazard Categories:
Health Hazard - Carcinogenicity
Health Hazard - Acute toxicity (any route of exposure)
Health Hazard - Skin Corrosion or Irritation
Health Hazard - Respiratory or Skin Sensitization
Health Hazard - Serious eye damage or eye irritation
Health Hazard - Specific target organ toxicity (single or repeated exposure)

North America Chemical Inventory Status

TSCA (Toxic Substances Control Act - United States):
All ingredients are listed or exempt from listing unless otherwise noted below.

CEPA (Canadian DSL):
All ingredients are listed or exempt from listing unless otherwise noted below.

California Proposition 65

Chemicals known to cause cancer:
None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for females:
None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for males:
None of the ingredients is listed.

(Cont. on page 8)

Safety Data Sheet

Trade name: *Silcor® 900 MP Component NA Part A*

(Cont. from page 7)

Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

Carcinogenicity Categories

EPA (Environmental Protection Agency)		
101-68-8	Diphenylmethane-4,4'-di-isocyanate	D, CBD

TLV-ACGIH (THE American Conference of Governmental Industrial Hygienists)
Human Carcinogen - A1 Confirmed, A2 Suspected, A3 Unknown Relevance, A4 Not Classifiable

None of the ingredients is listed.

NIOSH-Cancer (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

Volatile Organic Compounds (VOC) reported per the Emission Standards. 7.6 g/l / 0.06 lb/gl

16 Other information

The data included herein are presented in accordance with various environment, health and safety regulations. It is the responsibility of a recipient of the data to remain currently informed on chemical hazard information, to design and update its own program and to comply with all national, federal, state and local laws and regulations applicable to safety, occupational health, right-to-know and environmental protection.

Department issuing SDS:

GCP Applied Technologies
62 Whittemore Avenue
Cambridge, MA 02140 USA
USA: +1-617-876-1400 (24 hours)
+1-800-354-5414

Date of preparation / last revision 01/26/2017 / -

The first date of preparation 01/11/2017

Number of revision times and the latest revision date 1.0 / 01/26/2017

USGHS

Safety Data Sheet

Printing date 01/26/2017 **Version Number 1.0** **Reviewed on 01/26/2017**

*

1 Identification

Product identifier

Trade name: ***Silcor® 900 MP NA Part B***

SDS ID Number: 2780

Relevant identified uses of the substance or mixture, and uses advised against
Specialty construction product. Not intended for other uses

Details of the supplier of the safety data sheet

Manufacturer/Supplier:
GCP Applied Technologies
62 Whittemore Avenue
Cambridge, MA 02140 USA

GCP Canada, Inc.
294 Clements Road W.
Ajax, Ontario L1S 3C6 Canada

Information department:

Environmental Health & Safety
USA: +1-617-876-1400 (24 hours)
+1-800-354-5414 (8AM - 5PM) Not functional within Massachusetts
CAN: 1-905-683-8561 (24 hours)
Email address: msds.gcp@gcpat.com

Transport Emergency: Chemtrec +1-800-424-9300 (24 hours)

2 Hazard(s) identification

Classification of the substance or mixture

Harmful if swallowed.

Causes severe skin burns and eye damage.

Causes serious eye damage.

May cause damage to organs through prolonged or repeated exposure.

Label elements: The product is classified and labeled according to the Globally Harmonized System (GHS)

Hazard pictograms

GHS05 GHS07 GHS08

Danger

Hazard statements
Harmful if swallowed.
Causes severe skin burns and eye damage.
May cause damage to organs through prolonged or repeated exposure.
Precautionary statements
Wash thoroughly after handling.
Wear eye protection / face protection.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

(Cont. on page 2)

Safety Data Sheet

Trade name: *Silcor® 900 MP NA Part B*

(Cont. from page 1)

IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
If swallowed: Rinse mouth. Do NOT induce vomiting.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Immediately call a POISON CENTER/doctor.

Hazard description: Corrosive
NFPA ratings (scale 0 - 4)

Health = 3
Fire = 1
Reactivity = 0

HMIS-ratings (scale 0 - 4)

Health = *3
Flammability = 1
Reactivity = 0

Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.
vPvB: Not applicable.

3 Composition/information on ingredients

Chemical characterization: Mixture

Description: Mixture of the hazardous substance(s) listed below with additional nonhazardous ingredients.

Hazardous components:		
9046-10-0	Polyoxypropylene diamine	50-100%
68479-98-1	Diethylmethylbenzenediamine	25-30%

Additional information: Non-hazardous ingredients may be listed in Section 15; Right-To-Know disclosure.

*

4 First-aid measures

Description of first aid measures

General information: Get medical advice/attention if you feel unwell.

After inhalation: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

After skin contact:
Immediately wash contaminated skin with soap or mild detergent and water. If this chemical soaks clothing, immediately remove clothing and wash skin.

After eye contact: Rinse cautiously with water for several minutes.

After swallowing:

Rinse mouth.

Do NOT induce vomiting.
Drink copious amounts of water and provide fresh air. Immediately call a doctor.

Information for doctor:

Most important symptoms and effects, both acute and delayed Harmful if swallowed.

Indication of any immediate medical attention and special treatment needed No further relevant information available.

(Cont. on page 3)

Safety Data Sheet

Trade name: *Silcor® 900 MP NA Part B*

(Cont. from page 2)

5 Fire-fighting measures

Special hazards arising from the substance or mixture
During heating or in case of fire poisonous gases are produced.

Additional information Collect contaminated fire fighting water separately. It must not enter the sewage system.

*

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures
Wear protective equipment. Keep unprotected persons away.

Use respiratory protective device against the effects of fumes/dust/aerosol.

Environmental precautions: Avoid release to the environment.

Methods and material for containment and cleaning up:
Use neutralizing agent.

Dispose contaminated material as waste according to section 13 of the SDS.

Reference to other sections
See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

*

7 Handling and storage

Handling:
Precautions for safe handling

Risk of serious damage to eyes.

Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area.

Keep only in original container.

Prevent formation of aerosols.

Information about protection against explosions and fires: Keep respiratorator available.

Conditions for safe storage, including any incompatibilities
Storage: Reacts with water.

Information about storage in one common storage facility: Keep respiratorator available.

Further information about storage conditions:

Store in a dry place.

Keep receptacle tightly sealed.

Protect from frost.

Specific end use(s) No further relevant information available.

*

8 Exposure controls/personal protection

Additional information about design of technical systems: No further data; see item 7.

(Cont. on page 4)

Safety Data Sheet

Trade name: *Silcor® 900 MP NA Part B*

(Cont. from page 3)

Control parameters

Components with limit values that require monitoring at the workplace:
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional information: The lists that were valid during the creation were used as basis.

Exposure controls

Personal protective equipment:

General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Store protective clothing separately.

Breathing equipment:

Control exposure to ingredients with workplace control parameters if mentioned above. If no ingredients are listed, respiratory protection is generally not required.

If exposure limits are listed and may be exceeded, use approved respiratory protective equipment and filter type appropriate for the listed ingredients. (NIOSH, CEN, etc.).

Protection of hands: Protective gloves

Material of gloves
PVC or neoprene gloves.

Nitrile rubber.

Eye protection:

Safety glasses with side shield protection.

Body protection:

Use personal protective equipment as required.

Take off contaminated clothing.

9 Physical and chemical properties

Information on basic physical and chemical properties

General Information	
Appearance:	
Form:	Liquid
Color:	Light yellow
Odor:	Musty.
Odor threshold:	Not determined.
pH-value (~):	Not determined.
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	>300 °C (>572 °F)
Flash point:	>100 °C (>212 °F)
Flammability (solid, gaseous):	Not applicable.
Decomposition temperature:	Not determined.
Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined.

(Cont. on page 5)

Safety Data Sheet

Trade name: *Silcor® 900 MP NA Part B*

(Cont. from page 4)

Upper:	Not determined.
VOC Content (max):	Not determined.
Vapor pressure:	Not determined.
Density: (~) at 20 °C (68 °F)	1.1 g/cm³ (9.18 lbs/gal)
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with Water:	Not miscible or difficult to mix.
Partition coefficient (n-octanol/water):	Not determined.
Viscosity:	
Dynamic at 20 °C (68 °F):	775 mPas
Kinematic:	Not determined.
Molecular weight	Not applicable.
Other information	No further relevant information available.

10 Stability and reactivity

Reactivity Stable under normal conditions.

Chemical stability

Thermal decomposition: No decomposition if used according to specifications.

Possibility of hazardous reactions

Reacts with water.

Reacts with oxidizing agents.

Conditions to avoid No further relevant information available.

Incompatible materials: No further relevant information available.

Hazardous decomposition products: Carbon monoxide and carbon dioxide

11 Toxicological information

Delayed and immediate effects and chronic effects from short or long term exposure

May cause damage to organs through prolonged or repeated exposure.

Information on toxicological effects

Acute toxicity:

LD/LC50 values relevant for classification:		
9046-10-0 Polyoxypropylene diamine		
Oral	LD50	480 mg/kg (rat)
68479-98-1 Diethylmethylbenzenediamine		
Oral	LD50	738 mg/kg (rat) (OECD Test Guideline 401)
Dermal	LD50	738 mg/kg (rat)
	LD50	>2000 mg/kg (rat) (OCED Test Guideline 402)
	LC50, 48h	738 mg/kg (fish)
64742-95-6 Solvent naphtha (petroleum), light aromatic		
	LC50, 96h	9.2 mg/l (fish) (OECD 203)

Primary irritant effect:

on the skin: Causes severe skin burns and eye damage.

(Cont. on page 6)

Safety Data Sheet

Trade name: *Silcor® 900 MP NA Part B*

(Cont. from page 5)

on the eye: Causes serious eye damage.

inhalation: No irritating effect expected

Ingestion:
May cause damage to organs through prolonged or repeated exposure.
Harmful if swallowed.

Additional toxicological information:

Carcinogenic categories

IARC (International Agency for Research on Cancer) Human Carcinogenicity: Group 1- Positive, Group 2A- Probable, Group 2B- Possible, Group 3- Not Classifiable		
1330-20-7	Xylene	3
100-41-4	Ethylbenzene	2B

NTP (National Toxicology Program) K–Known to be carcinogenic, R–May reasonably be anticipated to be carcinogenic
None of the ingredients is listed.

OSHA-Ca (Occupational Safety & Health Administration)
None of the ingredients is listed.

12 Ecological information

Toxicity

Aquatic toxicity:	
68479-98-1 Diethylmethylbenzenediamine	
EC10, 16h	170 mg/l (pseudomonas putida) (DIN 38412 Part 8)
EC50, 72h	<1 mg/l (fish)
EC50, 48h	<1 mg/l (daphnia magna) (OECD Test Guideline 202)
64742-95-6 Solvent naphtha (petroleum), light aromatic	
EC50, 72h	2.6 mg/l (algae) (OECD 201)
EC50, 48h	3.2 mg/l (daphnia magna) (OECD 202)

Persistence and degradability No further relevant information available.

Behavior in environmental systems:

Bioaccumulative potential No further relevant information available.

Mobility in soil No further relevant information available.

Additional ecological information:

General notes: Must not reach bodies of water or drainage ditch undiluted or unneutralized.

Results of PBT and vPvB assessment

PBT: Not applicable.
vPvB: Not applicable.

Other adverse effects No further relevant information available.

13 Disposal considerations

Waste treatment methods Comply with Federal, State and local regulations.

(Cont. on page 7)

Safety Data Sheet

Trade name: *Silcor® 900 MP NA Part B*

(Cont. from page 6)

Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.

*

14 Transport information

UN-Number
DOT, IMDG, IATA UN1760

UN proper shipping name
DOT Corrosive liquids, n.o.s. (Polyoxypropylene diamine)
IMDG CORROSIVE LIQUID, N.O.S. (Polyoxypropylene diamine, Diethylmethylbenzenediamine), MARINE POLLUTANT
IATA CORROSIVE LIQUID, N.O.S. (Polyoxypropylene diamine)

Transport hazard class(es)

DOT

Class 8 Corrosive substances
Label 8

IMDG

Class 8 Corrosive substances
Label 8

IATA

Class 8 Corrosive substances
Label 8

Packing group
DOT, IMDG, IATA III

Environmental hazards:
Product contains environmentally hazardous substances: Diethylmethylbenzenediamine
Marine pollutant: Symbol (fish and tree)
Special marking (ADR): Symbol (fish and tree)

Special precautions for user
Warning: Corrosive substances
Danger code (Kemler): 80
EMS Number: F-A,S-B
Segregation groups Alkalis
Stowage Category A

(Cont. on page 8)

Safety Data Sheet

Trade name: *Silcor® 900 MP NA Part B*

(Cont. from page 7)

Stowage Code	SW2 Clear of living quarters.

Transport/Additional information:

IMDG	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
UN "Model Regulation":	UN 1760 CORROSIVE LIQUIDS, N.O.S. (POLYOXYPROPYLENE DIAMINE), 8, III, ENVIRONMENTALLY HAZARDOUS

*

15 Regulatory information

SARA (Superfund Amendments and Reauthorization Act)

Section 302/304 (extremely hazardous substances):
None of the ingredients is listed.

Section 313 Reportable Ingredients (Chemicals present below reporting threshold are exempt):
None of the ingredients is listed.

SARA Section 312/Tier I & II Hazard Categories:
Health Hazard - Acute toxicity (any route of exposure)
Health Hazard - Skin Corrosion or Irritation
Health Hazard - Serious eye damage or eye irritation
Health Hazard - Specific target organ toxicity (single or repeated exposure)

North America Chemical Inventory Status

TSCA (Toxic Substances Control Act - United States):
All ingredients are listed or exempt from listing unless otherwise noted below.

CEPA (Canadian DSL):
All ingredients are listed or exempt from listing unless otherwise noted below.

Right to Know Ingredient Disclosure:

25322-69-4	Polypropylene glycol
	Pigment paste/Disperhic PU 7038

California Proposition 65

Chemicals known to cause cancer:
Ethylbenzene

Chemicals known to cause reproductive toxicity for females:
None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for males:
None of the ingredients is listed.

Chemicals known to cause developmental toxicity:
None of the ingredients is listed.

Carcinogenicity Categories

EPA (Environmental Protection Agency)

1330-20-7	Xylene	I
100-41-4	Ethylbenzene	D

TLV-ACGIH (THE American Conference of Governmental Industrial Hygienists)
Human Carcinogen - A1 Confirmed, A2 Suspected, A3 Unknown Relevance, A4 Not Classifiable
None of the ingredients is listed.

NIOSH-Cancer (National Institute for Occupational Safety and Health)
None of the ingredients is listed.

(Cont. on page 9)

Safety Data Sheet

Trade name: *Silcor® 900 MP NA Part B*

(Cont. from page 8)

Volatile Organic Compounds (VOC) reported per the Emission Standards. 7.6 g/l / 0.06 lb/gl

16 Other information

The data included herein are presented in accordance with various environment, health and safety regulations. It is the responsibility of a recipient of the data to remain currently informed on chemical hazard information, to design and update its own program and to comply with all national, federal, state and local laws and regulations applicable to safety, occupational health, right-to-know and environmental protection.

Department issuing SDS:

GCP Applied Technologies
62 Whittemore Avenue
Cambridge, MA 02140 USA
USA: +1-617-876-1400 (24 hours)
+1-800-354-5414

Date of preparation / last revision 01/26/2017 / -

The first date of preparation 01/11/2017

Number of revision times and the latest revision date 1.0 / 01/26/2017

USGHS

Safety Data Sheet

Printing date 03/19/2019 **Version Number 2.0** **Reviewed on 03/19/2019**

1 Identification

Product identifier

Trade name: ***Silcor® Primer EPF (Part A)***

SDS ID Number: 41598

Relevant identified uses of the substance or mixture, and uses advised against:

Details of the supplier of the safety data sheet

Manufacturer/Supplier:

GCP Applied Technologies
62 Whittemore Avenue
Cambridge, MA 02140 USA

GCP Canada, Inc.
294 Clements Road W.
Ajax, Ontario L1S 3C6 Canada

www.gcpat.com

Information department:

CAN: +1-905-683-8561 (24 hours)

Environmental Health & Safety
USA: +1-617-876-1400 (24 hours)
+1-800-354-5414 (8AM - 5PM) Not functional within Massachusetts
CAN: 1-905-683-8561 (24 hours)
Email address: msds.gcp@gcpat.com

Transport Emergency: Chemtrec +1-800-424-9300 (24 hours)

2 Hazard(s) identification

Classification of the substance or mixture

Causes skin irritation.
Causes serious eye irritation.
May cause an allergic skin reaction.

Label elements: The product is classified and labeled according to the Globally Harmonized System (GHS)

Hazard pictograms

GHS07

Warning

Hazard statements
Causes skin irritation.
Causes serious eye irritation.
May cause an allergic skin reaction.
Precautionary statements
Avoid breathing dust/fume/gas/mist/vapors/spray
Wash thoroughly after handling.
Wear protective gloves / eye protection / face protection.
If on skin: Wash with plenty of water.

(Cont. on page 2)

Safety Data Sheet

Trade name: *Silcor® Primer EPF (Part A)*

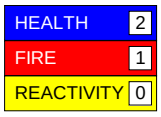
(Cont. from page 1)

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Take off contaminated clothing and wash it before reuse.
If skin irritation or rash occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
Wash contaminated clothing before reuse.
Dispose of contents/container in accordance with local/regional/national/international regulations.

NFPA ratings (scale 0 - 4)

Health = 2
Fire = 1
Reactivity = 0

HMIS-ratings (scale 0 - 4)



Health = 2
Flammability = 1
Reactivity = 0

Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.
vPvB: Not applicable.

3 Composition/information on ingredients

Chemical characterization: Mixture

Description: Mixture of the hazardous substance(s) listed below with additional nonhazardous ingredients.

Hazardous components:		
25068-38-6	4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane	70-<80%
2425-79-8	1,4-bis(2,3-epoxypropoxy)butane	15-<22%
68609-97-2	oxirane, mono[(C12-14-alkyloxy)methyl] derivs	5-<7.5%

Additional information: Non-hazardous ingredients may be listed in Section 15; Right-To-Know disclosure.

4 First-aid measures

Description of first aid measures

General information: Get medical advice/attention if you feel unwell.

After inhalation: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

After skin contact:
Immediately wash contaminated skin with soap or mild detergent and water. If this chemical soaks clothing, immediately remove clothing and wash skin.

Wash with plenty of soap and water.

After eye contact: Rinse cautiously with water for several minutes.

After swallowing:

Rinse mouth.

Do NOT induce vomiting.

Information for doctor:

Most important symptoms and effects, both acute and delayed
Allergic reactions

Irritating to eyes.

(Cont. on page 3)

Safety Data Sheet

Trade name: *Silcor® Primer EPF (Part A)*

(Cont. from page 2)

Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

Extinguishing media

Suitable extinguishing agents: CO2, extinguishing powder or water spray. Fight larger fires with water spray.

Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

Advice for firefighters

Protective equipment:

Wear self-contained respiratory protective device.
Wear personal protective equipment.

Additional information Collect contaminated fire fighting water separately. It must not enter the sewage system.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

Wear protective equipment. Keep unprotected persons away.

Environmental precautions: Inform respective authorities in case of seepage into water course or sewage system.

Methods and material for containment and cleaning up:

Send for recovery or disposal in suitable receptacles.

Dispose contaminated material as waste according to section 13 of the SDS.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

Handling:

Precautions for safe handling

Prevent formation of aerosols.

Avoid contact with eyes.

Do not eat, drink or smoke when using this product.

Keep only in original container.

Use only outdoors or in a well-ventilated area.

Information about protection against explosions and fires: No special measures required.

Conditions for safe storage, including any incompatibilities

Storage:

Information about storage in one common storage facility: Storage temperature 5-30°C.

(Cont. on page 4)

Safety Data Sheet

Trade name: *Silcor® Primer EPF (Part A)*

(Cont. from page 3)

Further information about storage conditions:

Keep receptacle tightly sealed.

Protect from frost.

Store in a dry place.

Keep cool.

Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

Additional information about design of technical systems: No further data; see item 7.

Control parameters

Components with limit values that require monitoring at the workplace:
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional information: The lists that were valid during the creation were used as basis.

Exposure controls

Personal protective equipment:

General protective and hygienic measures: The usual precautionary measures for handling chemicals should be followed.

Breathing equipment:

Control exposure to ingredients with workplace control parameters if mentioned above. If no ingredients are listed, respiratory protection is generally not required.

If exposure limits are listed and may be exceeded, use approved respiratory protective equipment and filter type appropriate for the listed ingredients. (NIOSH, CEN, etc.).

Protection of hands: Gloves should be worn to prevent skin contact and should be impermeable and resistant to the product.

Material of gloves

Rubber or other impervious gloves should be worn to prevent skin contact.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:

Safety glasses with side shield protection.

Body protection:

Use personal protective equipment as required.

Take off contaminated clothing.

9 Physical and chemical properties

Information on basic physical and chemical properties

General Information
Appearance:

Form:	Liquid
Color:	According to product specification
Odor:	Typical.

(Cont. on page 5)

Safety Data Sheet

Trade name: *Silcor® Primer EPF (Part A)*

(Cont. from page 4)

Odor threshold:	Not determined.
pH-value (~) at 20 °C (68 °F):	7
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	100 °C (212 °F)
Flash point:	>150 °C (>302 °F)
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	Undetermined.
Decomposition temperature:	Not determined.
Auto igniting:	Not determined.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
VOC Content (max):	Not determined.
Vapor pressure:	< 1 mbar at 20°C
Density: (~) at 20 °C (68 °F)	1 g/cm³ (8.3 lbs/gal)
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.
Partition coefficient (n-octanol/water):	Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Molecular weight	Not applicable.
Other information	No further relevant information available.

10 Stability and reactivity

Reactivity
Stable under normal conditions.
No further relevant information available.

Chemical stability

Thermal decomposition: No decomposition if used according to specifications.

Possibility of hazardous reactions Reacts with oxidising agents, alcohols, amines, alkalines.

Conditions to avoid No further relevant information available.

Incompatible materials: No further relevant information available.

Hazardous decomposition products: Carbon monoxide and carbon dioxide

11 Toxicological information

Information on toxicological effects

Acute toxicity:

LD/LC50 values relevant for classification:	
25068-38-6 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane	
LC50, 96h	220 mg/l (algae)

(Cont. on page 6)

Safety Data Sheet

Trade name: *Silcor® Primer EPF (Part A)*

(Cont. from page 5)

	3.6 mg/l (bacterial)
	2.4 mg/l (fish)
LC50, 48h	2.8 mg/l (daphnia magna)

Primary irritant effect:

on the skin: Causes skin irritation.

on the eye: Causes serious eye irritation.

inhalation: No irritating effect expected

Sensitization: May cause an allergic skin reaction.

Additional toxicological information:

Carcinogenic categories

IARC (International Agency for Research on Cancer) Human Carcinogenicity: Group 1- Positive, Group 2A- Probable, Group 2B- Possible, Group 3- Not Classifiable
None of the ingredients are listed.

NTP (National Toxicology Program) K–Known to be carcinogenic, R–May reasonably be anticipated to be carcinogenic
None of the ingredients are listed.

OSHA-Ca (Occupational Safety & Health Administration)
None of the ingredients are listed.

12 Ecological information

Toxicity

Aquatic toxicity: No further relevant information available.

Persistence and degradability

No further relevant information available.

Behavior in environmental systems:

Bioaccumulative potential No further relevant information available.

Mobility in soil No further relevant information available.

Additional ecological information:

General notes: Not known to be hazardous to water.

Results of PBT and vPvB assessment

PBT: Not applicable.
vPvB: Not applicable.

Other adverse effects

No further relevant information available.

13 Disposal considerations

Disposal methods:

Consult all regulations (federal, state, provincial, local) or a qualified waste disposal firm when characterizing product for disposal. Dispose of waste in accordance with all applicable regulations.

Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

(Cont. on page 7)

Safety Data Sheet

Trade name: *Silcor® Primer EPF (Part A)*

(Cont. from page 6)

Uncleaned packagings:

Recommendation: Dispose of contents/container in accordance with local/regional/national/international regulations.

14 Transport information

UN-Number
IMDG, IATA UN3082

UN proper shipping name
IMDG ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, 2,3-epoxypropyl neodecanoate - CARD), MARINE POLLUTANT

IATA ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, 2,3-epoxypropyl neodecanoate - CARD)

Transport hazard class(es)
IMDG, IATA

Class 9 Miscellaneous dangerous substances and articles
Label 9

Packing group
IMDG, IATA III

Environmental hazards:
Product contains environmentally hazardous substances: 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane
Marine pollutant: Symbol (fish and tree)
Special marking (ADR): Symbol (fish and tree)
Special marking (IATA): Symbol (fish and tree)

Special precautions for user
Warning: Miscellaneous dangerous substances and articles
Danger code (Kemler): 90
EMS Number: F-A,S-F
Stowage Category A

Transport/Additional information:
DOT
Remarks: Not regulated for non-bulk over the road shipments.

IMDG
Limited quantities (LQ) 5L
Excepted quantities (EQ) Code: E1
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml
Remarks: ≤5L, IMDG 2.10.2.7

IATA
Remarks: ≤5L, IATA Special Provision 197.

15 Regulatory information

SARA (Superfund Amendments and Reauthorization Act)

Section 302/304 (extremely hazardous substances):
None of the ingredients is listed.

(Cont. on page 8)

Safety Data Sheet

Trade name: *Silcor® Primer EPF (Part A)*

(Cont. from page 7)

Section 313 Reportable Ingredients (Chemicals present below reporting threshold are exempt):
None of the ingredients is listed.

SARA Section 312/Tier I & II Hazard Categories:
Health Hazard - Skin Corrosion or Irritation
Health Hazard - Respiratory or Skin Sensitization
Health Hazard - Serious eye damage or eye irritation

North America Chemical Inventory Status

TSCA (Toxic Substances Control Act - United States):
All ingredients are listed or exempt from listing unless otherwise noted below.

CEPA (Canadian DSL):
All ingredients are listed or exempt from listing unless otherwise noted below.

California Proposition 65: (Substances <0.1% unless noted in Section 3)

Chemicals known to cause cancer:
None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for females:
None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for males:
None of the ingredients are listed.

Chemicals known to cause developmental toxicity:
None of the ingredients are listed.

Carcinogenicity Categories

TLV-ACGIH (THE American Conference of Governmental Industrial Hygienists)
Human Carcinogen - A1 Confirmed, A2 Suspected, A3 Unknown Relevance, A4 Not Classifiable
None of the ingredients are listed.

NIOSH-Cancer (National Institute for Occupational Safety and Health)
None of the ingredients are listed.

Volatile Organic Compounds (VOC) reported per the Emission Standards. 0.0 g/l / 0.00 lb/gal

16 Other information

The data included herein are presented in accordance with various environment, health and safety regulations. It is the responsibility of a recipient of the data to remain currently informed on chemical hazard information, to design and update its own program and to comply with all national, federal, state and local laws and regulations applicable to safety, occupational health, right-to-know and environmental protection.

Department issuing SDS:

GCP Applied Technologies
62 Whittemore Avenue
Cambridge, MA 02140 USA
USA: +1-617-876-1400 (24 hours)
+1-800-354-5414

Product Stewardship Department
GCP Applied Technologies
580-581 Ipswich Road,
Slough, Berkshire.
SL1 4EQ

Tel: +44 (0)1753 490 000
Fax: +44 (0)1753 490 001

The first date of preparation 03/19/2019

Number of revision times and the latest revision date 2.0 / 03/19/2019

USGHS

Safety Data Sheet

Printing date 03/01/2019 **Version Number 1.0** **Reviewed on 03/01/2019**

1 Identification

Product identifier

Trade name: ***Silcor® Primer EPF (Part B)***

SDS ID Number: 41600

Relevant identified uses of the substance or mixture, and uses advised against:

Details of the supplier of the safety data sheet

Manufacturer/Supplier:

GCP Applied Technologies
62 Whittemore Avenue
Cambridge, MA 02140 USA

GCP Canada, Inc.
294 Clements Road W.
Ajax, Ontario L1S 3C6 Canada

www.gcpat.com

Information department:

CAN: +1-905-683-8561 (24 hours)

Environmental Health & Safety
USA: +1-617-876-1400 (24 hours)
+1-800-354-5414 (8AM - 5PM) Not functional within Massachusetts
CAN: 1-905-683-8561 (24 hours)
Email address: msds.gcp@gcpat.com

Transport Emergency: Chemtrec +1-800-424-9300 (24 hours)

2 Hazard(s) identification

Classification of the substance or mixture

Causes severe skin burns and eye damage.
Causes serious eye damage.
May cause an allergic skin reaction.
Suspected of damaging fertility or the unborn child.

Label elements: The product is classified and labeled according to the Globally Harmonized System (GHS)

Hazard pictograms

GHS05 GHS07 GHS08

Danger

Hazard statements
Causes severe skin burns and eye damage.
May cause an allergic skin reaction.
Suspected of damaging fertility or the unborn child.
Precautionary statements
Do not handle until all safety precautions have been read and understood.
Avoid breathing dust/fume/gas/mist/vapors/spray
Wear protective gloves/protective clothing/eye protection/face protection.

(Cont. on page 2)

Safety Data Sheet

Trade name: *Silcor® Primer EPF (Part B)*

(Cont. from page 1)

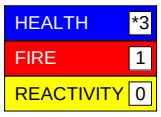
If swallowed: Rinse mouth. Do NOT induce vomiting.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a poison center/doctor.
IF exposed or concerned: Get medical advice/attention.
If skin irritation or rash occurs: Get medical advice/attention.

Additional information: Exothermic reaction.

Hazard description: Corrosive
NFPA ratings (scale 0 - 4)

Health = 3
Fire = 1
Reactivity = 0

HMIS-ratings (scale 0 - 4)



Health = *3
Flammability = 1
Reactivity = 0

Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.
vPvB: Not applicable.

3 Composition/information on ingredients

Chemical characterization: Mixture

Description: Mixture of the hazardous substance(s) listed below with additional nonhazardous ingredients.

Hazardous components:		
98-54-4	4-tert-butylphenol	40-<50%
1477-55-0	m-phenylenebis (methylamine)	10-<15%
61788-44-1	Phenol, styrenated	5-<7.5%
100-51-6	Benzyl alcohol	5-<7.5%
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	5-<7.5%
25513-64-8	Trimethylhexane-1,6-diamine	3-<5%

Additional information: Non-hazardous ingredients may be listed in Section 15; Right-To-Know disclosure.

4 First-aid measures

Description of first aid measures

General information: Get medical advice/attention if you feel unwell.

After inhalation: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

After skin contact:
Immediately wash contaminated skin with soap or mild detergent and water. If this chemical soaks clothing, immediately remove clothing and wash skin.

Wash with plenty of soap and water.

After eye contact: Rinse cautiously with water for several minutes.

(Cont. on page 3)

Safety Data Sheet

Trade name: *Silcor® Primer EPF (Part B)*

(Cont. from page 2)

After swallowing:

Rinse mouth.

Do NOT induce vomiting.

Drink copious amounts of water and provide fresh air. Immediately call a doctor.

Information for doctor:

Most important symptoms and effects, both acute and delayed

Causes burns.
Allergic reactions

Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

Extinguishing media

Suitable extinguishing agents: CO2, extinguishing powder or water spray. Fight larger fires with water spray.

Special hazards arising from the substance or mixture

During heating or in case of fire poisonous gases are produced.

Advice for firefighters

Protective equipment:

Wear self-contained respiratory protective device.
Wear personal protective equipment.

Additional information Collect contaminated fire fighting water separately. It must not enter the sewage system.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

Wear protective equipment. Keep unprotected persons away.

Use respiratory protective device against the effects of fumes/dust/aerosol.

Environmental precautions: Inform respective authorities in case of seepage into water course or sewage system.

Methods and material for containment and cleaning up:

Use neutralizing agent.

Send for recovery or disposal in suitable receptacles.

Dispose contaminated material as waste according to section 13 of the SDS.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

Handling:

Precautions for safe handling

Prevent formation of aerosols.

(Cont. on page 4)

Safety Data Sheet

Trade name: *Silcor® Primer EPF (Part B)*

(Cont. from page 3)

Do not eat, drink or smoke when using this product.

Keep only in original container.

Use only outdoors or in a well-ventilated area.

Information about protection against explosions and fires: No special measures required.

Conditions for safe storage, including any incompatibilities

Storage:

Information about storage in one common storage facility: Storage temperature 5-30°C.

Further information about storage conditions:

Keep receptacle tightly sealed.

Protect from frost.

Store in a dry place.

Keep cool.

Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

Additional information about design of technical systems: No further data; see item 7.

Control parameters

Components with limit values that require monitoring at the workplace:	
1477-55-0 m-phenylenebis (methylamine)	
REL (USA)	Ceiling limit value: 0.1 mg/m³ Skin
TLV (USA)	Ceiling limit value: 0.1 mg/m³, 0.018 ppm Skin
100-51-6 Benzyl alcohol	
WEEL (USA)	Long-term value: 10 ppm

Additional information: The lists that were valid during the creation were used as basis.

Exposure controls

Personal protective equipment:

General protective and hygienic measures: The usual precautionary measures for handling chemicals should be followed.

Breathing equipment:

Control exposure to ingredients with workplace control parameters if mentioned above. If no ingredients are listed, respiratory protection is generally not required.

If exposure limits are listed and may be exceeded, use approved respiratory protective equipment and filter type appropriate for the listed ingredients. (NIOSH, CEN, etc.).

Protection of hands: Gloves should be worn to prevent skin contact and should be impermeable and resistant to the product.

Material of gloves

Nitrile rubber.
Rubber or other impervious gloves should be worn to prevent skin contact.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

(Cont. on page 5)

Safety Data Sheet

Trade name: *Silcor® Primer EPF (Part B)*

(Cont. from page 4)

Eye protection:

Safety glasses with side shield protection.

Body protection:

Use personal protective equipment as required.

Take off contaminated clothing.

9 Physical and chemical properties

Information on basic physical and chemical properties

General Information	
Appearance:	
Form:	Liquid
Color:	According to product specification
Odor:	Amine-like
Odor threshold:	Not determined.
pH-value (~) at 20 °C (68 °F):	7
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	>200 °C (>392 °F)
Flash point:	>100 °C (>212 °F)
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	435 °C (815 °F)
Decomposition temperature:	Not determined.
Auto igniting:	Not determined.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
VOC Content (max):	Not determined.
Vapor pressure:	0,28 hPa at 20°C
Density: (~) at 20 °C (68 °F)	1.1 g/cm³ (9.2 lbs/gal)
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.
Partition coefficient (n-octanol/water):	Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Molecular weight	Not applicable.
Other information	No further relevant information available.

(Cont. on page 6)

Safety Data Sheet

Trade name: *Silcor® Primer EPF (Part B)*

(Cont. from page 5)

10 Stability and reactivity

Reactivity
Stable under normal conditions.
No further relevant information available.

Chemical stability

Thermal decomposition: No decomposition if used according to specifications.

Possibility of hazardous reactions Reacts with acids, oxidising agents.

Conditions to avoid No further relevant information available.

Incompatible materials: No further relevant information available.

Hazardous decomposition products: Carbon monoxide and carbon dioxide

11 Toxicological information

Information on toxicological effects

Acute toxicity:

LD/LC50 values relevant for classification:		
98-54-4 4-tert-butylphenol		
Dermal	LD50	2,951 mg/kg (rat)
	LD50	2,288 mg/kg (rabbit)
1477-55-0 m-phenylenebis (methylamine)		
Oral	LD50	980 mg/kg (rat) (OECD 401)
Dermal	LD50	3,100 mg/kg (rat) (OECD 402)
100-51-6 Benzyl alcohol		
Oral	LD50	1,040 mg/kg (mouse)
Dermal	LD50	>2,000 mg/kg (rabbit)
90-72-2 2,4,6-tris(dimethylaminomethyl)phenol		
Oral	LD50	2,169 mg/kg (rat) (OECD 401)
25513-64-8 Trimethylhexane-1,6-diamine		
Oral	LD50	910 mg/kg (rat)
Dermal	LD50	1,280 mg/kg (rabbit)

Primary irritant effect:

on the skin: Causes severe skin burns and eye damage.

on the eye: Causes serious eye damage.

inhalation: No irritating effect expected

Sensitization: May cause an allergic skin reaction.

Additional toxicological information: Suspected of damaging fertility or the unborn child.

Carcinogenic categories

IARC (International Agency for Research on Cancer) Human Carcinogenicity: **Group 1- Positive, Group 2A- Probable, Group 2B- Possible, Group 3- Not Classifiable**
None of the ingredients are listed.

NTP (National Toxicology Program) **K–Known to be carcinogenic, R–May reasonably be anticipated to be carcinogenic**
None of the ingredients are listed.

(Cont. on page 7)

Safety Data Sheet

Trade name: *Silcor® Primer EPF (Part B)*

(Cont. from page 6)

OSHA-Ca (Occupational Safety & Health Administration)
None of the ingredients are listed.

12 Ecological information

Toxicity

Aquatic toxicity:	
1477-55-0 m-phenylenebis (methylamine)	
EC50, 72h	12 mg/l (algae) (OECD 201)

Persistence and degradability No further relevant information available.

Behavior in environmental systems:

Bioaccumulative potential No further relevant information available.

Mobility in soil No further relevant information available.

Additional ecological information:

General notes: Must not reach bodies of water or drainage ditch undiluted or unneutralized.

Results of PBT and vPvB assessment

PBT: Not applicable.
vPvB: Not applicable.

Other adverse effects No further relevant information available.

13 Disposal considerations

Disposal methods:

Consult all regulations (federal, state, provincial, local) or a qualified waste disposal firm when characterizing product for disposal. Dispose of waste in accordance with all applicable regulations.

Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Uncleaned packagings:

Recommendation: Dispose of contents/container in accordance with local/regional/national/international regulations.

14 Transport information

UN-Number	
DOT, IMDG, IATA	UN2735
UN proper shipping name	
DOT	Amines, liquid, corrosive, n.o.s. (m-phenylenebis (methylamine), Phenol)
IMDG, IATA	AMINES, LIQUID, CORROSIVE, N.O.S. (m-phenylenebis (methylamine), PHENOL)

(Cont. on page 8)

Safety Data Sheet

Trade name: *Silcor® Primer EPF (Part B)*

(Cont. from page 7)

Transport hazard class(es)

DOT

Class 8 Corrosive substances
Label 8

IMDG, IATA

Class 8 Corrosive substances
Label 8

Packing group
DOT, IMDG, IATA III

Environmental hazards: Not applicable.

Special precautions for user Warning: Corrosive substances
Stowage Category A
Segregation Code SG35 Stow "separated from" acids.

Transport/Additional information:

IMDG
Limited quantities (LQ) 5L
Excepted quantities (EQ) Code: E1
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml

15 Regulatory information

SARA (Superfund Amendments and Reauthorization Act)

Section 302/304 (extremely hazardous substances):
None of the ingredients is listed.

Section 313 Reportable Ingredients (Chemicals present below reporting threshold are exempt):
None of the ingredients is listed.

SARA Section 312/Tier I & II Hazard Categories:
Health Hazard - Reproductive toxicity
Health Hazard - Skin Corrosion or Irritation
Health Hazard - Respiratory or Skin Sensitization
Health Hazard - Serious eye damage or eye irritation

North America Chemical Inventory Status

TSCA (Toxic Substances Control Act - United States):
All ingredients are listed or exempt from listing unless otherwise noted below.

CEPA (Canadian DSL):
Inventory listing could not be confirmed for one or more substances.

Right to Know Ingredient Disclosure:
Non Hazardous / Non Regulated Components

(Cont. on page 9)

Safety Data Sheet

Trade name: *Silcor® Primer EPF (Part B)*

(Cont. from page 8)

California Proposition 65: (Substances <0.1% unless noted in Section 3)

Chemicals known to cause cancer:
None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for females:
None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for males:
None of the ingredients are listed.

Chemicals known to cause developmental toxicity:
None of the ingredients are listed.

Carcinogenicity Categories

TLV-ACGIH (THE American Conference of Governmental Industrial Hygienists) **Human Carcinogen - A1 Confirmed, A2 Suspected, A3 Unknown Relevance, A4 Not Classifiable**
None of the ingredients are listed.

NIOSH-Cancer (National Institute for Occupational Safety and Health)
None of the ingredients are listed.

Volatile Organic Compounds (VOC) reported per the Emission Standards. 78.4 g/l / 0.65 lb/gal

16 Other information

The data included herein are presented in accordance with various environment, health and safety regulations. It is the responsibility of a recipient of the data to remain currently informed on chemical hazard information, to design and update its own program and to comply with all national, federal, state and local laws and regulations applicable to safety, occupational health, right-to-know and environmental protection.

Department issuing SDS:

GCP Applied Technologies
62 Whittemore Avenue
Cambridge, MA 02140 USA
USA: +1-617-876-1400 (24 hours)
+1-800-354-5414

Product Stewardship Department
GCP Applied Technologies
580-581 Ipswich Road,
Slough, Berkshire.
SL1 4EQ

Tel: +44 (0)1753 490 000
Fax: +44 (0)1753 490 001

The first date of preparation 03/01/2019

Number of revision times and the latest revision date 1.0 / 03/01/2019

Safety Data Sheet

1 Identification

Product identifier

Trade name: ***SILCOR® Fast Set Primer Part A***

SDS ID Number: 554

Relevant identified uses of the substance or mixture, and uses advised against:
Specialty construction product. Not intended for other uses.

Details of the supplier of the safety data sheet

Manufacturer/Supplier:

GCP Applied Technologies
62 Whittemore Avenue
Cambridge, MA 02140 USA

GCP Canada, Inc.
294 Clements Road W.
Ajax, Ontario L1S 3C6 Canada

Information department:

Environmental Health & Safety
USA: +1-617-876-1400 (24 hours)
+1-800-354-5414 (8AM - 5PM) Not functional within Massachusetts
CAN: 1-905-683-8561 (24 hours)
Email address: msds.gcp@gcpat.com

Transport Emergency: Chemtrec +1-800-424-9300 (24 hours)

2 Hazard(s) identification

Classification of the substance or mixture

Harmful if inhaled.
Causes skin irritation.
Causes serious eye irritation.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause an allergic skin reaction.
May cause respiratory irritation.
May cause damage to organs through prolonged or repeated exposure.

Label elements: The product is classified and labeled according to the Globally Harmonized System (GHS)

Hazard pictograms

Danger

Hazard statements
Harmful if inhaled.
Causes skin irritation.
Causes serious eye irritation.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause an allergic skin reaction.

(Cont. on page 2)

Safety Data Sheet

Trade name: *SILCOR® Fast Set Primer Part A*

(Cont. from page 1)

May cause respiratory irritation.
May cause damage to organs through prolonged or repeated exposure.
Precautionary statements
Avoid breathing dust/fume/gas/mist/vapors/spray
Wear protective gloves / eye protection / face protection.
[In case of inadequate ventilation] wear respiratory protection.
If on skin: Wash with plenty of water.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Call a poison center/doctor if you feel unwell.
If skin irritation or rash occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.

Hazard description:

NFPA ratings (scale 0 - 4)

Health = 2
Fire = 1
Reactivity = 0

HMIS-ratings (scale 0 - 4)

Health = *2
Flammability = 1
Reactivity = 0

Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.
vPvB: Not applicable.

3 Composition/information on ingredients

Chemical characterization: Mixture

Description: Mixture of the hazardous substance(s) listed below with additional nonhazardous ingredients.

Hazardous components:		
9016-87-9	Diphenylmethanediisocyanate, isomers and homologues	90-100%

Additional information: Non-hazardous ingredients may be listed in Section 15; Right-To-Know disclosure.

4 First-aid measures

Description of first aid measures

General information: Get medical advice/attention if you feel unwell.

After inhalation:

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF INHALED: Call a doctor if you feel unwell.

After skin contact:
Immediately wash contaminated skin with soap or mild detergent and water. If this chemical soaks clothing, immediately remove clothing and wash skin.

After eye contact: Rinse cautiously with water for several minutes.

(Cont. on page 3)

Safety Data Sheet

Trade name: *SILCOR® Fast Set Primer Part A*

(Cont. from page 2)

After swallowing:

Rinse mouth.

Do NOT induce vomiting.

Immediately call a doctor.

Information for doctor:

Most important symptoms and effects, both acute and delayed
Allergic reactions

Irritating to eyes.

Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

Special hazards arising from the substance or mixture
During heating or in case of fire poisonous gases are produced.

Advice for firefighters
Protective equipment: Wear personal protective equipment.

Additional information Collect contaminated fire fighting water separately. It must not enter the sewage system.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures
Wear protective equipment. Keep unprotected persons away.

Methods and material for containment and cleaning up:
Dispose of the collected material according to regulations.

Reference to other sections
See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

Handling:
Precautions for safe handling Prevent formation of aerosols.

Information about protection against explosions and fires: No special measures required.

Conditions for safe storage, including any incompatibilities
Storage:

Information about storage in one common storage facility: Keep respirator available.

Further information about storage conditions: Keep receptacle tightly sealed.

Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

Additional information about design of technical systems: No further data; see item 7.

(Cont. on page 4)

Safety Data Sheet

Trade name: *SILCOR® Fast Set Primer Part A*

(Cont. from page 3)

Control parameters

Components with limit values that require monitoring at the workplace:	
9016-87-9 Diphenylmethanediisocyanate, isomers and homologues	
EL (Canada)	Long-term value: 0.005 ppm Ceiling limit value: 0.01 ppm

Additional information:
Canadian employers must consult the exposure limits in their province.

The lists that were valid during the creation were used as basis.

Exposure controls

Appropriate engineering controls Local exhaust ventilation is recommended.

Personal protective equipment:

General protective and hygienic measures: The usual precautionary measures for handling chemicals should be followed.

Breathing equipment:

Isocyanates (contained in Part B and in mixed components) are known as respiratory sensitisers.

Atmospheric levels should be maintained below the exposure guideline. When atmospheric levels may exceed the exposure guideline, use an approved full-face, air-purifying respirator equipped with an organic vapor sorbent and a particle filter. Use the following CE approved air-purifying respirator: Organic vapor cartridge with a particulate prefilter, type AP2.

For spray applications use a positive-pressure air-supplying respirator (air line or self-contained breathing apparatus). For emergency response or for situations where the atmospheric level is unknown, use an approved positive-pressure self-contained breathing apparatus or positive-pressure air line with auxiliary self-contained air supply.

For hand applications, unless monitoring data confirms that respiratory protection is not necessary, use an approved half-face air purifying respirator equipped with an organic vapor sorbent filter (EU Type A, NIOSH Black, etc.) and particulate pre-filter (EU Type P2, NIOSH N95, etc.).

For emergency response, an approved positive pressure Self Contained Breathing Apparatus (SCBA) or positive pressure air line with auxiliary self-contained air supply is recommended.

Protection of hands: Gloves should be worn to prevent skin contact and should be impermeable and resistant to the product.

Material of gloves Rubber or other impervious gloves should be worn to prevent skin contact.

Eye protection:

Protective goggles.

Safety glasses with side shield protection.

Body protection:

Use personal protective equipment as required.

Take off contaminated clothing.

9 Physical and chemical properties

Information on basic physical and chemical properties

General Information
Appearance:
Form: Liquid
Color: Amber colored

(Cont. on page 5)

Safety Data Sheet

Trade name: *SILCOR® Fast Set Primer Part A*

(Cont. from page 4)

Odor:	Characteristic
Odor threshold:	Not determined.
pH-value (~):	Not determined.
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	>300 °C (>572 °F)
Flash point:	Not applicable.
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	Undetermined.
Decomposition temperature:	Not determined.
Auto igniting:	Not determined.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapor pressure:	Not determined.
Density: (~) at 20 °C (68 °F)	1.2 g/cm³ (10 lbs/gal)
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Fully miscible.
Partition coefficient (n-octanol/water):	Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Molecular weight	Not determined.
Other information	No further relevant information available.

10 Stability and reactivity

Reactivity
Stable under normal conditions.
No further relevant information available.

Chemical stability
Thermal decomposition: No decomposition if used according to specifications.

Possibility of hazardous reactions
No dangerous reactions known.
No further relevant information available.

Conditions to avoid No further relevant information available.

Incompatible materials: No further relevant information available.

Hazardous decomposition products: Carbon monoxide and carbon dioxide

(Cont. on page 6)

Safety Data Sheet

Trade name: *SILCOR® Fast Set Primer Part A*

(Cont. from page 5)

11 Toxicological information

Information on toxicological effects

Acute toxicity:

LD/LC50 values relevant for classification:		
9016-87-9 Diphenylmethanediisocyanate, isomers and homologues		
Oral	LD50	10,000 mg/kg (rat)
Dermal	LD50	9,000 mg/kg (rat)
Inhalation	LC50, 4h	11 mg/l (rat)

Primary irritant effect:

on the skin: Causes skin irritation.

on the eye: Causes serious eye irritation.

inhalation:
Harmful if inhaled.
May cause respiratory irritation.

Ingestion: May cause damage to organs through prolonged or repeated exposure.

Sensitization:

May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause an allergic skin reaction.

Additional toxicological information:

Carcinogenic categories

IARC (International Agency for Research on Cancer) Human Carcinogenicity: **Group 1- Positive, Group 2A- Probable, Group 2B- Possible, Group 3- Not Classifiable**		
9016-87-9	Diphenylmethanediisocyanate, isomers and homologues	3

NTP (National Toxicology Program) **K–Known to be carcinogenic, R–May reasonably be anticipated to be carcinogenic**
None of the ingredients are listed.

OSHA-Ca (Occupational Safety & Health Administration)
None of the ingredients are listed.

12 Ecological information

Toxicity

Aquatic toxicity: No further relevant information available.

Persistence and degradability

No further relevant information available.

Behavior in environmental systems:

Bioaccumulative potential No further relevant information available.

Mobility in soil No further relevant information available.

Additional ecological information:

General notes: Not known to be hazardous to water.

Results of PBT and vPvB assessment

PBT: Not applicable.
vPvB: Not applicable.

Other adverse effects

No further relevant information available.

(Cont. on page 7)

Safety Data Sheet

Trade name: *SILCOR® Fast Set Primer Part A*

(Cont. from page 6)

13 Disposal considerations

Disposal methods:

Consult all regulations (federal, state, provincial, local) or a qualified waste disposal firm when characterizing product for disposal. Dispose of waste in accordance with all applicable regulations.

Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Uncleaned packagings:

Recommendation: Dispose of contents/container in accordance with local/regional/national/international regulations.

14 Transport information

UN-Number **DOT, IMDG, IATA**	Not applicable.
UN proper shipping name **DOT, IMDG, IATA**	Not applicable.
Transport hazard class(es) **DOT, IMDG, IATA** **Class**	Not applicable.
Packing group **DOT, IMDG, IATA**	Not applicable.
Environmental hazards:	Not applicable.
Special precautions for user	Not applicable.
Transport/Additional information: **DOT** **Remarks:**	Not Regulated.

15 Regulatory information

Other regulations in domestic and foreign countries

SARA (Superfund Amendments and Reauthorization Act)

Section 302/304 (extremely hazardous substances):

None of the ingredients is listed.

Section 313 Reportable Ingredients (Chemicals present below reporting threshold are exempt):

9016-87-9	Diphenylmethanediisocyanate, isomers and homologues	90.0%

SARA Section 312/Tier I & II Hazard Categories:
Health Hazard - Acute toxicity (any route of exposure)
Health Hazard - Skin Corrosion or Irritation
Health Hazard - Respiratory or Skin Sensitization
Health Hazard - Serious eye damage or eye irritation
Health Hazard - Specific target organ toxicity (single or repeated exposure)

North America Chemical Inventory Status

TSCA (Toxic Substances Control Act - United States):

All ingredients are listed or exempt from listing unless otherwise noted below.

(Cont. on page 8)

Safety Data Sheet

Trade name: *SILCOR® Fast Set Primer Part A*

(Cont. from page 7)

CEPA (Canadian DSL):
All ingredients are listed or exempt from listing unless otherwise noted below.

Right to Know Ingredient Disclosure:

9048-57-1	MDI Polyurethane Prepolymer

California Proposition 65: (Substances <0.1% unless noted in Section 3)

Chemicals known to cause cancer:
None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for females:
None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for males:
None of the ingredients are listed.

Chemicals known to cause developmental toxicity:
None of the ingredients are listed.

Carcinogenicity Categories

TLV-ACGIH (THE American Conference of Governmental Industrial Hygienists)
Human Carcinogen - A1 Confirmed, A2 Suspected, A3 Unknown Relevance, A4 Not Classifiable
None of the ingredients are listed.

NIOSH-Cancer (National Institute for Occupational Safety and Health)
None of the ingredients are listed.

Volatile Organic Compounds (VOC) reported per the Emission Standards.
If no g/L value is provided this product is not subject to above standard.

16 Other information

The data included herein are presented in accordance with various environment, health and safety regulations. It is the responsibility of a recipient of the data to remain currently informed on chemical hazard information, to design and update its own program and to comply with all national, federal, state and local laws and regulations applicable to safety, occupational health, right-to-know and environmental protection.

Department issuing SDS:

GCP Applied Technologies
62 Whittemore Avenue
Cambridge, MA 02140 USA
USA: +1-617-876-1400 (24 hours)
+1-800-354-5414

Contact:

The first date of preparation 05/11/2021

Number of revision times and the latest revision date 1.0 / 05/11/2021

USGHS

Safety Data Sheet

Printing date 05/11/2021 **Version Number 1.0** **Reviewed on 05/11/2021**

1 Identification

Product identifier

Trade name: ***SILCOR® Fast Set Primer Part B***

SDS ID Number: 566

Relevant identified uses of the substance or mixture, and uses advised against:
Specialty construction product. Not intended for other uses.

Details of the supplier of the safety data sheet

Manufacturer/Supplier:

GCP Applied Technologies
62 Whittemore Avenue
Cambridge, MA 02140 USA

GCP Canada, Inc.
294 Clements Road W.
Ajax, Ontario L1S 3C6 Canada

Information department:

Environmental Health & Safety
USA: +1-617-876-1400 (24 hours)
+1-800-354-5414 (8AM - 5PM) Not functional within Massachusetts
CAN: 1-905-683-8561 (24 hours)
Email address: msds.gcp@gcpat.com

Transport Emergency: Chemtrec +1-800-424-9300 (24 hours)

2 Hazard(s) identification

Classification of the substance or mixture

Causes skin irritation.
Causes eye irritation.

Label elements: The product is classified and labeled according to the Globally Harmonized System (GHS)

Hazard pictograms

Warning

Hazard statements
Causes skin irritation.
Causes eye irritation.
Precautionary statements
Wash thoroughly after handling.
Wear protective gloves.
If on skin: Wash with plenty of water.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If skin irritation occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.

(Cont. on page 2)

Safety Data Sheet

Trade name: *SILCOR® Fast Set Primer Part B*

(Cont. from page 1)

Hazard description:

NFPA ratings (scale 0 - 4)

Health = 2
Fire = 1
Reactivity = 0

HMIS-ratings (scale 0 - 4)

Health = 2
Flammability = 1
Reactivity = 0

Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.
vPvB: Not applicable.

3 Composition/information on ingredients

Chemical characterization: Mixture

Description: Mixture of the hazardous substance(s) listed below with additional nonhazardous ingredients.

Hazardous components: Not applicable.

Additional information: Non-hazardous ingredients may be listed in Section 15; Right-To-Know disclosure.

4 First-aid measures

Description of first aid measures

General information: Get medical advice/attention if you feel unwell.

After inhalation: No special measures required.

After skin contact:
Immediately wash contaminated skin with soap or mild detergent and water. If this chemical soaks clothing, immediately remove clothing and wash skin.

After eye contact: Rinse cautiously with water for several minutes.

After swallowing:

Rinse mouth.

Do NOT induce vomiting.

Information for doctor:

Most important symptoms and effects, both acute and delayed Irritating to eyes.

Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

Special hazards arising from the substance or mixture No further relevant information available.

Advice for firefighters

Protective equipment: Wear personal protective equipment.

(Cont. on page 3)

Safety Data Sheet

Trade name: *SILCOR® Fast Set Primer Part B*

(Cont. from page 2)

Additional information Collect contaminated fire fighting water separately. It must not enter the sewage system.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Methods and material for containment and cleaning up:

Dispose of the collected material according to regulations.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

Handling:

Precautions for safe handling No special precautions are necessary if used correctly.

Information about protection against explosions and fires: No special measures required.

Conditions for safe storage, including any incompatibilities

Storage:

Information about storage in one common storage facility: No special measures required.

Further information about storage conditions: Keep receptacle tightly sealed.

Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

Additional information about design of technical systems: No further data; see item 7.

Control parameters

Components with limit values that require monitoring at the workplace:
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional information:
Canadian employers must consult the exposure limits in their province.

The lists that were valid during the creation were used as basis.

Exposure controls

Personal protective equipment:

General protective and hygienic measures: The usual precautionary measures for handling chemicals should be followed.

Breathing equipment:

Control exposure to ingredients with workplace control parameters if mentioned above. If no ingredients are listed, respiratory protection is generally not required.

If exposure limits are listed and may be exceeded, use approved respiratory protective equipment and filter type appropriate for the listed ingredients. (NIOSH, CEN, etc.).

Protection of hands: Gloves should be worn to prevent skin contact and should be impermeable and resistant to the product.

Material of gloves Rubber or other impervious gloves should be worn to prevent skin contact.

(Cont. on page 4)

Safety Data Sheet

Trade name: *SILCOR® Fast Set Primer Part B*

(Cont. from page 3)

Eye protection:

Safety glasses with side shield protection.

Body protection:

Use personal protective equipment as required.

Take off contaminated clothing.

9 Physical and chemical properties

Information on basic physical and chemical properties

General Information	
Appearance:	
Form:	Liquid
Color:	Colorless
Odor:	Characteristic
Odor threshold:	Not determined.
pH-value (~):	Not determined.
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	>300 °C (>572 °F)
Flash point:	Not applicable.
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	Undetermined.
Decomposition temperature:	Not determined.
Auto igniting:	Not determined.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapor pressure:	Not determined.
Density: (~) at 20 °C (68 °F)	1 g/cm³ (8.3 lbs/gal)
Vapor density	Not determined.
Evaporation rate at 20 °C (68 °F)	<1
Solubility in / Miscibility with	
Water:	Fully miscible.
Partition coefficient (n-octanol/water):	Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Molecular weight	Not determined.
Other information	No further relevant information available.

10 Stability and reactivity

Reactivity

Stable under normal conditions.

No further relevant information available.

(Cont. on page 5)

Safety Data Sheet

Trade name: *SILCOR® Fast Set Primer Part B*

(Cont. from page 4)

Chemical stability

Thermal decomposition: No decomposition if used according to specifications.

Possibility of hazardous reactions

No dangerous reactions known.
No further relevant information available.

Conditions to avoid No further relevant information available.

Incompatible materials: No further relevant information available.

Hazardous decomposition products: Carbon monoxide and carbon dioxide

11 Toxicological information

Information on toxicological effects

Acute toxicity:

Primary irritant effect:

on the skin: Causes skin irritation.

on the eye: Causes serious eye irritation.

inhalation: No irritating effect expected

Additional toxicological information:

Carcinogenic categories

IARC (International Agency for Research on Cancer) Human Carcinogenicity: Group 1- Positive, Group 2A- Probable, Group 2B- Possible, Group 3- Not Classifiable		
1318-02-1	Zeolite (crystalline aluminosilicate)	3

NTP (National Toxicology Program) K–Known to be carcinogenic, R–May reasonably be anticipated to be carcinogenic
None of the ingredients are listed.

OSHA-Ca (Occupational Safety & Health Administration)
None of the ingredients are listed.

12 Ecological information

Toxicity

Aquatic toxicity: No further relevant information available.

Persistence and degradability No further relevant information available.

Behavior in environmental systems:

Bioaccumulative potential No further relevant information available.

Mobility in soil No further relevant information available.

Additional ecological information:

General notes: Not known to be hazardous to water.

Results of PBT and vPvB assessment

PBT: Not applicable.
vPvB: Not applicable.

Other adverse effects No further relevant information available.

(Cont. on page 6)

Safety Data Sheet

Trade name: *SILCOR® Fast Set Primer Part B*

(Cont. from page 5)

13 Disposal considerations

Disposal methods:

Consult all regulations (federal, state, provincial, local) or a qualified waste disposal firm when characterizing product for disposal. Dispose of waste in accordance with all applicable regulations.

Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Uncleaned packagings:

Recommendation: Dispose of contents/container in accordance with local/regional/national/international regulations.

14 Transport information

UN-Number	
DOT, IMDG, IATA	Not applicable.
UN proper shipping name	
DOT, IMDG, IATA	Not applicable.
Transport hazard class(es)	
DOT, IMDG, IATA	
Class	Not applicable.
Packing group	
DOT, IMDG, IATA	Not applicable.
Environmental hazards:	Not applicable.
Special precautions for user	Not applicable.
Transport/Additional information:	
DOT	
Remarks:	Not Regulated.

15 Regulatory information

Other regulations in domestic and foreign countries

SARA (Superfund Amendments and Reauthorization Act)

Section 302/304 (extremely hazardous substances):

None of the ingredients is listed.

Section 313 Reportable Ingredients (Chemicals present below reporting threshold are exempt):

None of the ingredients is listed.

SARA Section 312/Tier I & II Hazard Categories:

Health Hazard - Skin Corrosion or Irritation

Health Hazard - Serious eye damage or eye irritation

North America Chemical Inventory Status

TSCA (Toxic Substances Control Act - United States):

All ingredients are listed or exempt from listing unless otherwise noted below.

CEPA (Canadian DSL):

All ingredients are listed or exempt from listing unless otherwise noted below.

(Cont. on page 7)

Safety Data Sheet

Trade name: *SILCOR® Fast Set Primer Part B*

(Cont. from page 6)

Right to Know Ingredient Disclosure:	
8001-79-4	Castor oil
102-60-3	1,1',1",1"'-ethylenedinitrilotetrapropan-2-ol
1318-02-1	Zeolite (crystalline aluminosilicate)

California Proposition 65: (Substances <0.1% unless noted in Section 3)

Chemicals known to cause cancer:

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

Carcinogenicity Categories

TLV-ACGIH (THE American Conference of Governmental Industrial Hygienists)
Human Carcinogen - A1 Confirmed, A2 Suspected, A3 Unknown Relevance, A4 Not Classifiable

None of the ingredients are listed.

NIOSH-Cancer (National Institute for Occupational Safety and Health)

None of the ingredients are listed.

Volatile Organic Compounds (VOC) reported per the Emission Standards.
If no g/L value is provided this product is not subject to above standard.

16 Other information

The data included herein are presented in accordance with various environment, health and safety regulations. It is the responsibility of a recipient of the data to remain currently informed on chemical hazard information, to design and update its own program and to comply with all national, federal, state and local laws and regulations applicable to safety, occupational health, right-to-know and environmental protection.

Department issuing SDS:

GCP Applied Technologies
62 Whittemore Avenue
Cambridge, MA 02140 USA
USA: +1-617-876-1400 (24 hours)
+1-800-354-5414

Contact:

The first date of preparation 05/11/2021

Number of revision times and the latest revision date 1.0 / 05/11/2021

USGHS

Safety Data Sheet

Printing date 10/28/2016 **Version Number 1.0** **Reviewed on 10/28/2016**

*

1 Identification

Product identifier

Trade name: ***Bituthene Liquid Membrane Part A***

SDS ID Number: 60025

Relevant identified uses of the substance or mixture, and uses advised against
Specialty construction product. Not intended for other uses

Details of the supplier of the safety data sheet

Manufacturer/Supplier:
GCP Applied Technologies
62 Whittemore Avenue
Cambridge, MA 02140 USA

GCP Canada, Inc.
294 Clements Road W.
Ajax, Ontario L1S 3C6 Canada

Information department:

Environmental Health & Safety
USA: +1-617-876-1400 (24 hours)
+1-800-354-5414 (8AM - 5PM) Not functional within Massachusetts
CAN: 1-905-683-8561 (24 hours)
Email address: msds.gcp@gcpat.com

Transport Emergency: Chemtrec +1-800-424-9300 (24 hours)

*

2 Hazard(s) identification

Classification of the substance or mixture

May cause cancer.

Label elements: The product is classified and labeled according to the Globally Harmonized System (GHS)

Hazard pictograms

GHS08

Danger

Hazard statements
May cause cancer.
Precautionary statements
Wear protective gloves/protective clothing/eye protection/face protection.
Do not handle until all safety precautions have been read and understood.
Obtain special instructions before use.
IF exposed or concerned: Get medical advice/attention.
Dispose of contents/container in accordance with local/regional/national/international regulations.
NFPA ratings (scale 0 - 4)

Health = 2
Fire = 1
Reactivity = 1

(Cont. on page 2)

Safety Data Sheet

Trade name: *Bituthene Liquid Membrane Part A*

(Cont. from page 1)

HMIS-ratings (scale 0 - 4)

HEALTH	*2
FIRE	1
REACTIVITY	1

Health = *2
Flammability = 1
Reactivity = 1

Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.
vPvB: Not applicable.

*
3 Composition/information on ingredients

Chemical characterization: Mixture

Description: Mixture of the hazardous substance(s) listed below with additional nonhazardous ingredients.

Hazardous components:		
8052-42-4	Asphalt	20-25%
64742-04-7	Extracts (petroleum), heavy paraffinic distillate solvent	10-20%
130498-29-2	Polycyclic Aromatic Hydrocarbons	0.1-0.3%

Additional information: Non-hazardous ingredients may be listed in Section 15; Right-To-Know disclosure.

*
4 First-aid measures

Description of first aid measures

General information:

Get medical advice/attention if you feel unwell.

After inhalation:
If symptoms develop, supply fresh air. If required, provide artificial respiration and seek immediate medical treatment.

After skin contact:
Immediately wash contaminated skin with soap or mild detergent and water. If this chemical soaks clothing, immediately remove clothing and wash skin.

If residue remains, clean with waterless handcream or abrasive soap. Never use solvents.

After eye contact:

If contact with residue causes eye irritation, flush eyes with water for at least 15 minutes while holding eyelids open.

After swallowing: Do not induce vomiting; immediately call for medical help.

Information for doctor:

Most important symptoms and effects, both acute and delayed No further relevant information available.

Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

Extinguishing media

Suitable extinguishing agents: CO2, extinguishing powder or water spray. Fight larger fire with alcohol resistant foam.

Special hazards arising from the substance or mixture No further relevant information available.

Additional information

Cool endangered receptacles with water spray.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

(Cont. on page 3)

Safety Data Sheet

Trade name: *Bituthene Liquid Membrane Part A*

(Cont. from page 2)

*

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Environmental precautions: Do not allow product to reach sewage system or any water course.

Methods and material for containment and cleaning up:

Contain and/or absorb spill with inert material (i.e. sand, vermiculite) then place in a suitable container.

Sweep up spilled product into receptacles.

Pick up mechanically.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

*

7 Handling and storage

Handling:

Precautions for safe handling

Open and handle receptacle with care.

Prevent formation of aerosols.
Avoid contact with skin and eyes.

Information about protection against explosions and fires: No special measures required.

Conditions for safe storage, including any incompatibilities

Storage:

Information about storage in one common storage facility: No special measures required.

Further information about storage conditions: Keep receptacle tightly sealed.

Specific end use(s) No further relevant information available.

*

8 Exposure controls/personal protection

Additional information about design of technical systems: No further data; see item 7.

Control parameters

Components with limit values that require monitoring at the workplace:	
8052-42-4 Asphalt	
REL (USA)	Ceiling limit value: 5* mg/m³ *15-min; See Pocket Guide App. A
TLV (USA)	Long-term value: 0.5* mg/m³ *inh. fraction; as benzene-soluble aerosol; BEIp

Ingredients with biological limit values:	
8052-42-4 Asphalt	
BEI (USA)	- Medium: urine Time: end of shift at end of workweek Parameter: 1-Hydroxypyrene with hydrolysis (nonquantitative)
130498-29-2 Polycyclic Aromatic Hydrocarbons	
BEI (USA)	Medium: urine Time: end of shift at end of workweek Parameter: 1-Hydroxypyrene with hydrolysis (nonquantitative)

Additional information: The lists that were valid during the creation were used as basis.

(Cont. on page 4)

Safety Data Sheet

Trade name: *Bituthene Liquid Membrane Part A*

(Cont. from page 3)

Exposure controls

Personal protective equipment:

General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Store protective clothing separately.

Breathing equipment:

Control exposure to ingredients with workplace control parameters if mentioned above. If no ingredients are listed, respiratory protection is generally not required.

If exposure limits are listed and may be exceeded, use approved respiratory protective equipment and filter type appropriate for the listed ingredients. (NIOSH, CEN, etc.).

Protection of hands: Gloves should be worn to prevent skin contact and should be impermeable and resistant to the product.

Material of gloves Gloves should be worn to prevent skin contact and should be impermeable and resistant to the product.

Eye protection:

Safety glasses with side shield protection.

A face shield should also be worn if there is potential exposure to splash or spray.

Body protection:

Use personal protective equipment as required.

Take off contaminated clothing.

*

9 Physical and chemical properties

Information on basic physical and chemical properties

General Information	
Appearance:	
Form:	Liquid
Color:	According to product specification
Odor:	Characteristic
Odor threshold:	Not determined.
pH-value (~):	Not determined.
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.
Flash point:	200 °C (392 °F)
Flammability (solid, gaseous):	Not applicable.
Decomposition temperature:	Not determined.
Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
VOC Content (max):	Not determined.
Vapor pressure:	Not determined.
Density: (~) at 20 °C (68 °F)	1.1 g/cm³ (9.18 lbs/gal)
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.

(Cont. on page 5)

Safety Data Sheet

Trade name: *Bituthene Liquid Membrane Part A*

(Cont. from page 4)

Solubility in / Miscibility with Water:	Not miscible or difficult to mix.
Partition coefficient (n-octanol/water):	Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Molecular weight	Not applicable.
Other information	No further relevant information available.

*

10 Stability and reactivity

Reactivity Stable under normal conditions.

Chemical stability

Thermal decomposition: No decomposition if used according to specifications.

Possibility of hazardous reactions No further relevant information available.

Conditions to avoid No further relevant information available.

Incompatible materials: No further relevant information available.

Hazardous decomposition products:

Carbon monoxide and carbon dioxide
Other potentially hazardous products may also be formed.

Additional information: See section 7 for information on handling, storage and conditions to be avoided.

*

11 Toxicological information

Information on toxicological effects

Acute toxicity:

Primary irritant effect:

on the skin: No irritating effect expected

on the eye: No irritating effect expected

inhalation: No irritating effect expected

Additional toxicological information: May cause cancer.

Carcinogenic categories

IARC (International Agency for Research on Cancer) Human Carcinogenicity:
Group 1- Positive, Group 2A- Probable, Group 2B- Possible, Group 3- Not Classifiable

69012-64-2	Silica, fume	3
8052-42-4	Asphalt	2B
64742-04-7	Extracts (petroleum), heavy paraffinic distillate solvent	1
130498-29-2	Polycyclic Aromatic Hydrocarbons	2A

NTP (National Toxicology Program)
K–Known to be carcinogenic, R–May reasonably be anticipated to be carcinogenic

None of the ingredients is listed.

OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

(Cont. on page 6)

Safety Data Sheet

Trade name: *Bituthene Liquid Membrane Part A*

(Cont. from page 5)

*

12 Ecological information

Toxicity

Aquatic toxicity:	
64742-04-7 Extracts (petroleum), heavy paraffinic distillate solvent	
LC/EC/IC50 (static)	18.8 mg/l (algae) (OECD guideline 201)

Persistence and degradability No further relevant information available.

Behavior in environmental systems:

Bioaccumulative potential No further relevant information available.

Mobility in soil No further relevant information available.

Additional ecological information:

General notes: Not known to be hazardous to water.

Results of PBT and vPvB assessment

PBT: Not applicable.
vPvB: Not applicable.

Other adverse effects No further relevant information available.

*

13 Disposal considerations

Waste treatment methods Comply with Federal, State and local regulations.

Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.

*

14 Transport information

UN-Number **DOT, IMDG, IATA**	Not applicable.
UN proper shipping name **DOT, IMDG, IATA**	Not applicable.
Transport hazard class(es) **DOT, IMDG, IATA** **Class**	Not applicable.
Packing group **DOT, IMDG, IATA**	Not applicable.
Environmental hazards: **Marine pollutant:**	No
Special precautions for user	Not applicable.
Transport/Additional information:	Not classified as a dangerous good for transport by road, rail or air.
DOT **Remarks:**	Not Regulated.

(Cont. on page 7)

Safety Data Sheet

Trade name: *Bituthene Liquid Membrane Part A*

(Cont. from page 6)

UN "Model Regulation": Not applicable.

*
15 Regulatory information

SARA (Superfund Amendments and Reauthorization Act)

Section 302/304 (extremely hazardous substances):
None of the ingredients is listed.

Section 313 Reportable Ingredients (Chemicals present below reporting threshold are exempt):
None of the ingredients is listed.

SARA Section 312/Tier I & II Hazard Categories: Health Hazard - Carcinogenicity

North America Chemical Inventory Status

TSCA (Toxic Substances Control Act - United States):
All ingredients are listed or exempt from listing unless otherwise noted below.

CEPA (Canadian DSL):
All ingredients are listed or exempt from listing unless otherwise noted below.

Right to Know Ingredient Disclosure:

69012-64-2	Silica, fume
69102-90-5	1,3-Butadiene, homopolymer, hydroxy-terminated
25791-96-2	Glycerol, propylene oxide polymer
8001-78-3	Castor oil, hydrogenated
1332-58-7	Natural aluminosilicate (Kaolin)

California Proposition 65

Chemicals known to cause cancer:
Extracts (petroleum), heavy paraffinic distillate solvent
Polycyclic Aromatic Hydrocarbons
Quartz (SiO2)
4-vinylcyclohexene
1,3-Butadiene

Chemicals known to cause reproductive toxicity for females:

100-40-3	4-vinylcyclohexene
106-99-0	1,3-Butadiene

Chemicals known to cause reproductive toxicity for males:

106-99-0	1,3-Butadiene

Chemicals known to cause developmental toxicity:

106-99-0	1,3-Butadiene

Carcinogenicity Categories

EPA (Environmental Protection Agency)
None of the ingredients is listed.

TLV-ACGIH (THE American Conference of Governmental Industrial Hygienists)
Human Carcinogen - A1 Confirmed, A2 Suspected, A3 Unknown Relevance, A4 Not Classifiable

Asphalt	A4
Natural aluminosilicate (Kaolin)	A4

NIOSH-Cancer (National Institute for Occupational Safety and Health)

8052-42-4	Asphalt

Volatile Organic Compounds (VOC) reported per the Emission Standards. (gr/L) 10 gr/L (as applied)

*
16 Other information

The data included herein are presented in accordance with various environment, health and safety regulations. It is the responsibility of a recipient of the data to remain currently informed on chemical hazard information, to design and update its own program and to comply with all national, federal, state and local laws and regulations applicable to safety, occupational health, right-to-know and environmental protection.

(Cont. on page 8)

Safety Data Sheet

Trade name: *Bituthene Liquid Membrane Part A*

(Cont. from page 7)

Department issuing SDS:

GCP Applied Technologies
62 Whittemore Avenue
Cambridge, MA 02140 USA
USA: +1-617-876-1400 (24 hours)
+1-800-354-5414

Other Information:

There is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis. Therefore preventing the onset of silicosis will also reduce the cancer risk.
Date of preparation / last revision 10/28/2016 / -

The first date of preparation 03/03/2015

Number of revision times and the latest revision date 1.0 / 10/28/2016

USGHS

Safety Data Sheet

Printing date 10/31/2016 **Version Number 1.2** **Reviewed on 10/31/2016**

*

1 Identification

Product identifier

Trade name: ***Bituthene Liquid Membrane & Deck Prep Part B***

SDS ID Number: 583

Relevant identified uses of the substance or mixture, and uses advised against
Specialty construction product. Not intended for other uses

Details of the supplier of the safety data sheet

Manufacturer/Supplier:
GCP Applied Technologies
62 Whittemore Avenue
Cambridge, MA 02140 USA

GCP Canada, Inc.
294 Clements Road W.
Ajax, Ontario L1S 3C6 Canada

Information department:

Environmental Health & Safety
USA: +1-617-876-1400 (24 hours)
+1-800-354-5414 (8AM - 5PM) Not functional within Massachusetts
CAN: 1-905-683-8561 (24 hours)
Email address: msds.gcp@gcpat.com

Transport Emergency: Chemtrec +1-800-424-9300 (24 hours)

*

2 Hazard(s) identification

Classification of the substance or mixture

Harmful if inhaled.

Causes skin irritation.

Causes serious eye irritation.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

Suspected of causing cancer.

May cause respiratory irritation.

May cause damage to organs through prolonged or repeated exposure.

Label elements: The product is classified and labeled according to the Globally Harmonized System (GHS)

Hazard pictograms

GHS07 GHS08

Danger

Hazard statements
Harmful if inhaled.
Causes skin irritation.
Causes serious eye irritation.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause an allergic skin reaction.
Suspected of causing cancer.
May cause respiratory irritation.

(Cont. on page 2)

Safety Data Sheet

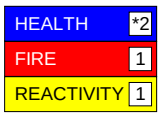
Trade name: *Bituthene Liquid Membrane & Deck Prep Part B*

(Cont. from page 1)

May cause damage to organs through prolonged or repeated exposure.
Precautionary statements
Avoid breathing dust/fume/gas/mist/vapors/spray
[In case of inadequate ventilation] wear respiratory protection.
Wear eye protection / face protection.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF ON SKIN: Wash with plenty of water.
If skin irritation or rash occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF exposed or concerned: Get medical advice/attention.
NFPA ratings (scale 0 - 4)

Health = 2
Fire = 1
Reactivity = 1

HMIS-ratings (scale 0 - 4)



Health = *2
Flammability = 1
Reactivity = 1

Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.
vPvB: Not applicable.

*
3 Composition/information on ingredients

Chemical characterization: Mixture

Description: Mixture of the hazardous substance(s) listed below with additional nonhazardous ingredients.

Hazardous components:		
26447-40-5	Methylenediphenyl diisocyanate, mixture of isomers	30-50%
101-68-8	Diphenylmethane-4,4'-di-isocyanate	30-50%
61788-32-7	Terphenyl plasticiser, hydrogenated	10-20%
78-40-0	Triethylphosphate	1.0-3.0%

Additional information: Non-hazardous ingredients may be listed in Section 15; Right-To-Know disclosure.

*
4 First-aid measures

Description of first aid measures

General information: Get medical advice/attention if you feel unwell.

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact:
Immediately wash contaminated skin with soap or mild detergent and water. If this chemical soaks clothing, immediately remove clothing and wash skin.

After eye contact:

Rinse opened eye for several minutes under running water.

Seek immediate medical advice.

After swallowing:

Rinse mouth.

Never give anything by mouth to an unconscious person.

Do not induce vomiting; immediately call for medical help.

(Cont. on page 3)

Safety Data Sheet

Trade name: *Bituthene Liquid Membrane & Deck Prep Part B*

(Cont. from page 2)

Information for doctor:

Most important symptoms and effects, both acute and delayed No further relevant information available.

Indication of any immediate medical attention and special treatment needed No further relevant information available.

*

5 Fire-fighting measures

Special hazards arising from the substance or mixture No further relevant information available.

Additional information

Cool endangered receptacles with water spray.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

*

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Methods and material for containment and cleaning up:

Contain and/or absorb spill with inert material (i.e. sand, vermiculite) then place in a suitable container.

Sweep up spilled product into receptacles.

Dispose contaminated material as waste according to section 13 of the SDS.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

*

7 Handling and storage

Handling:

Precautions for safe handling

Open and handle receptacle with care.

Prevent formation of aerosols.

Avoid contact with skin.

Avoid contact with eyes.

Information about protection against explosions and fires: No special measures required.

Conditions for safe storage, including any incompatibilities

Storage:

Information about storage in one common storage facility: No special measures required.

Further information about storage conditions: Keep receptacle tightly sealed.

Specific end use(s) No further relevant information available.

*

8 Exposure controls/personal protection

Additional information about design of technical systems: No further data; see item 7.

(Cont. on page 4)

Safety Data Sheet

Trade name: *Bituthene Liquid Membrane & Deck Prep Part B*

(Cont. from page 3)

Control parameters

Components with limit values that require monitoring at the workplace:	
101-68-8 Diphenylmethane-4,4'-di-isocyanate	
PEL (USA)	Ceiling limit value: 0.2 mg/m³, 0.02 ppm
REL (USA)	Long-term value: 0.05 mg/m³, 0.005 ppm Ceiling limit value: 0.2* mg/m³, 0.02* ppm *10-min
TLV (USA)	Long-term value: 0.051 mg/m³, 0.005 ppm
61788-32-7 Terphenyl plasticiser, hydrogenated	
REL (USA)	Long-term value: 5 mg/m³, 0.5 ppm
TLV (USA)	Long-term value: 4.9 mg/m³, 0.5 ppm nonirradiated
78-40-0 Triethylphosphate	
WEEL (USA)	Long-term value: 7.45 mg/m³

Additional information: The lists that were valid during the creation were used as basis.

Exposure controls

Personal protective equipment:

General protective and hygienic measures:

Avoid contact with the eyes and skin.

The usual precautionary measures for handling chemicals should be followed.

Breathing equipment:

Control exposure to ingredients with workplace control parameters if mentioned above. If no ingredients are listed, respiratory protection is generally not required.

If exposure limits are listed and may be exceeded, use approved respiratory protective equipment and filter type appropriate for the listed ingredients. (NIOSH, CEN, etc.).

Protection of hands: Gloves should be worn to prevent skin contact and should be impermeable and resistant to the product.

Material of gloves Gloves should be worn to prevent skin contact and should be impermeable and resistant to the product.

Eye protection:

Safety glasses with side shield protection.

Safety glasses with side shields should be worn to prevent contact due to splashing. Under high vapor mist concentrations, tightly sealed goggles should be worn.

A face shield should also be worn if there is potential exposure to splash or spray.

Body protection:

Protective work clothing

Use personal protective equipment as required.

Take off contaminated clothing.

*

9 Physical and chemical properties

Information on basic physical and chemical properties

General Information

Appearance:

Form:	Liquid
Color:	According to product specification
Odor:	Characteristic

(Cont. on page 5)

Safety Data Sheet

Trade name: *Bituthene Liquid Membrane & Deck Prep Part B*

(Cont. from page 4)

Odor threshold:	Not determined.
pH-value (~):	Not determined.
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	208 °C (406 °F)
Flash point:	212 °C (414 °F)
Flammability (solid, gaseous):	Not applicable.
Decomposition temperature:	Not determined.
Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
VOC Content (max):	Not determined.
Vapor pressure:	Not determined.
Density: (~)	Not determined.
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix. Not miscible or difficult to mix.
Partition coefficient (n-octanol/water):	Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Molecular weight	Not applicable.
Other information	These are typical values and do not constitute a specification.

*

10 Stability and reactivity

Reactivity Stable under normal conditions.

Chemical stability

Thermal decomposition: No decomposition if used according to specifications.

Possibility of hazardous reactions No further relevant information available.

Conditions to avoid No further relevant information available.

Incompatible materials: No further relevant information available.

Hazardous decomposition products:

Carbon monoxide and carbon dioxide
(possible HCN)
Other potentially hazardous products may also be formed.

Additional information: See section 7 for information on handling, storage and conditions to be avoided.

*

11 Toxicological information

Delayed and immediate effects and chronic effects from short or long term exposure
May cause damage to organs through prolonged or repeated exposure.

(Cont. on page 6)

Safety Data Sheet

Trade name: *Bituthene Liquid Membrane & Deck Prep Part B*

(Cont. from page 5)

Information on toxicological effects

Acute toxicity:

LD/LC50 values relevant for classification:		
101-68-8 Diphenylmethane-4,4'-di-isocyanate		
Oral	LD50	> 10000 mg/kg (rat)
Dermal	LD50	> 9400 mg/kg (rabbit)
Inhalation	LC50, 4h	0.49 mg/l (rat)

Primary irritant effect:

on the skin: Causes skin irritation.

on the eye: Causes serious eye irritation.

inhalation:
Harmful if inhaled.
Causes damage to organs.
May cause respiratory irritation.

Ingestion: May cause damage to organs through prolonged or repeated exposure.

Sensitization:

May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause an allergic skin reaction.

Additional toxicological information: Suspected of causing cancer.

Carcinogenic categories

IARC (International Agency for Research on Cancer) Human Carcinogenicity: **Group 1- Positive, Group 2A- Probable, Group 2B- Possible, Group 3- Not Classifiable**		
101-68-8	Diphenylmethane-4,4'-di-isocyanate	3

NTP (National Toxicology Program) **K–Known to be carcinogenic, R–May reasonably be anticipated to be carcinogenic**
None of the ingredients is listed.

OSHA-Ca (Occupational Safety & Health Administration)
None of the ingredients is listed.

*

12 Ecological information

Toxicity

Aquatic toxicity: No further relevant information available.

Persistence and degradability No further relevant information available.

Behavior in environmental systems:

Bioaccumulative potential No further relevant information available.

Mobility in soil No further relevant information available.

Additional ecological information:

General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Results of PBT and vPvB assessment

PBT: Not applicable.
vPvB: Not applicable.

Other adverse effects No further relevant information available.

(Cont. on page 7)

Safety Data Sheet

Trade name: *Bituthene Liquid Membrane & Deck Prep Part B*

(Cont. from page 6)

*

13 Disposal considerations

Waste treatment methods

Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.

*

14 Transport information

UN-Number **DOT, IMDG, IATA**	Not applicable.
UN proper shipping name **DOT, IMDG, IATA**	Not applicable.
Transport hazard class(es) **DOT, IMDG, IATA** **Class**	Not applicable.
Packing group **DOT, IMDG, IATA**	Not applicable.
Environmental hazards: **Marine pollutant:**	No
Special precautions for user	Not applicable.
Transport/Additional information:	Not classified as a dangerous good for transport by road, rail or air.
DOT **Remarks:**	Not Regulated.
UN "Model Regulation":	Not applicable.

*

15 Regulatory information

SARA (Superfund Amendments and Reauthorization Act)

Section 302/304 (extremely hazardous substances):

None of the ingredients is listed.

Section 313 Reportable Ingredients (Chemicals present below reporting threshold are exempt):

101-68-8	Diphenylmethane-4,4'-di-isocyanate	30.9%

SARA Section 312/Tier I & II Hazard Categories:
Health Hazard - Carcinogenicity
Health Hazard - Acute toxicity (any route of exposure)
Health Hazard - Skin Corrosion or Irritation
Health Hazard - Respiratory or Skin Sensitization
Health Hazard - Serious eye damage or eye irritation
Health Hazard - Specific target organ toxicity (single or repeated exposure)

North America Chemical Inventory Status

TSCA (Toxic Substances Control Act - United States):

All ingredients are listed or exempt from listing unless otherwise noted below.

CEPA (Canadian DSL):

All ingredients are listed or exempt from listing unless otherwise noted below.

Right to Know Ingredient Disclosure:

39310-05-9	Methylenebis(isocyanatobenzene) polymer

(Cont. on page 8)

Safety Data Sheet

Trade name: *Bituthene Liquid Membrane & Deck Prep Part B*

(Cont. from page 7)

68956-74-1	Quaterphenyls
26140-60-3	Terphenyl plasticiser unhydrogenated

California Proposition 65

Chemicals known to cause cancer:
None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for females:
None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for males:
None of the ingredients is listed.

Chemicals known to cause developmental toxicity:
None of the ingredients is listed.

Carcinogenicity Categories

EPA (Environmental Protection Agency)

101-68-8	Diphenylmethane-4,4'-di-isocyanate	D, CBD

TLV-ACGIH (THE American Conference of Governmental Industrial Hygienists)
Human Carcinogen - A1 Confirmed, A2 Suspected, A3 Unknown Relevance, A4 Not Classifiable
None of the ingredients is listed.

NIOSH-Cancer (National Institute for Occupational Safety and Health)
None of the ingredients is listed.

Volatile Organic Compounds (VOC) reported per the Emission Standards. (gr/L) 10 gr/L (as applied)

*
16 Other information

The data included herein are presented in accordance with various environment, health and safety regulations. It is the responsibility of a recipient of the data to remain currently informed on chemical hazard information, to design and update its own program and to comply with all national, federal, state and local laws and regulations applicable to safety, occupational health, right-to-know and environmental protection.

Department issuing SDS:

GCP Applied Technologies
62 Whittemore Avenue
Cambridge, MA 02140 USA
USA: +1-617-876-1400 (24 hours)
+1-800-354-5414

Date of preparation / last revision 10/31/2016 / 1.1

The first date of preparation 08/03/2006

Number of revision times and the latest revision date 1.2 / 10/31/2016

USGHS

Safety Data Sheet

Printing date 04/13/2018 **Version Number 1.0** **Reviewed on 04/13/2018**

*

1 Identification

Product identifier

Trade name: ***Hydroduct® Waterproofing Products***

SDS ID Number:
2902

Additional Information: Full product name listing available in Section 16.

Relevant identified uses of the substance or mixture, and uses advised against:

Waterproofing.
Specialty construction product. Not intended for other uses.

Details of the supplier of the safety data sheet

Manufacturer/Supplier:
GCP Applied Technologies
62 Whittemore Avenue
Cambridge, MA 02140 USA

GCP Canada, Inc.
294 Clements Road W.
Ajax, Ontario L1S 3C6 Canada

Information department:

Environmental Health & Safety
USA: +1-617-876-1400 (24 hours)
+1-800-354-5414 (8AM - 5PM) Not functional within Massachusetts
CAN: 1-905-683-8561 (24 hours)
Email address: msds.gcp@gcpat.com

Transport Emergency: Chemtrec +1-800-424-9300 (24 hours)

*

2 Hazard(s) identification

Classification of the substance or mixture

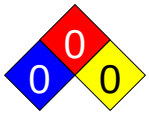
The product is not classified, according to the Globally Harmonized System (GHS).
Additional information:
SDS's are not required for finished articles. nevertheless, the following information is provided to assist with safe use.

Label elements:

Hazard pictograms Not applicable.

Not applicable.

Hazard statements Not applicable.
NFPA ratings (scale 0 - 4)



Health = 0
Fire = 0
Reactivity = 0

HMIS-ratings (scale 0 - 4)

Health = 0
Flammability = 0
Reactivity = 0

(Cont. on page 2)

Safety Data Sheet

Trade name: *Hydroduct® Waterproofing Products*

(Cont. from page 1)

Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.
vPvB: Not applicable.

*

3 Composition/information on ingredients

Chemical characterization: Mixture

Hazardous components: Not applicable.

Additional information: Non-hazardous ingredients may be listed in Section 15; Right-To-Know disclosure.

*

4 First-aid measures

Description of first aid measures

General information: Get medical advice/attention if you feel unwell.

After inhalation: No special measures required.

After skin contact: Due to the physical nature of this product adverse effects are not likely.

After eye contact:

Rinse cautiously with water for several minutes.
If symptoms persist, consult a physician.

After swallowing: Due to physical nature of this product, ingestion is not likely.

Information for doctor:

Most important symptoms and effects, both acute and delayed No further relevant information available.

Indication of any immediate medical attention and special treatment needed No further relevant information available.

*

5 Fire-fighting measures

Special hazards arising from the substance or mixture No further relevant information available.

Advice for firefighters

Protective equipment: Wear personal protective equipment.

Additional information Collect contaminated fire fighting water separately. It must not enter the sewage system.

*

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Methods and material for containment and cleaning up: No special measures required.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

(Cont. on page 3)

Safety Data Sheet

Trade name: *Hydroduct® Waterproofing Products*

(Cont. from page 2)

*

7 Handling and storage

Handling:

Precautions for safe handling For professional use only. Keep out of children's reach.

Conditions for safe storage, including any incompatibilities

Storage:

Information about storage in one common storage facility: No special measures required.

Further information about storage conditions: Protect from heat and direct sunlight.

Specific end use(s) No further relevant information available.

*

8 Exposure controls/personal protection

Additional information about design of technical systems: No further data; see item 7.

Control parameters

Components with limit values that require monitoring at the workplace:
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional information: The lists that were valid during the creation were used as basis.

Exposure controls

Personal protective equipment:

General protective and hygienic measures: Use good personal hygiene practices.

Breathing equipment:

Control exposure to ingredients with workplace control parameters if mentioned above. If no ingredients are listed, respiratory protection is generally not required.

If exposure limits are listed and may be exceeded, use approved respiratory protective equipment and filter type appropriate for the listed ingredients. (NIOSH, CEN, etc.).

Protection of hands: No chemical-protective gloves required.

Eye protection:

Safety glasses with side shield protection.

Body protection: Use personal protective equipment as required.

*

9 Physical and chemical properties

Information on basic physical and chemical properties	
General Information	
Appearance:	
Form:	Solid
Color:	According to product specification
Odor:	Characteristic
Odor threshold:	Not determined.
pH-value (~):	Not applicable.
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.

(Cont. on page 4)

Safety Data Sheet

Trade name: *Hydroduct® Waterproofing Products*

(Cont. from page 3)

Flash point:	Not applicable.
Flammability (solid, gaseous):	Not determined.
Ignition temperature:	Undetermined.
Decomposition temperature:	Not determined.
Auto igniting:	Not determined.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
VOC Content (max):	Not determined.
Vapor pressure:	Not applicable.
Density: (~) at 20 °C (68 °F)	1 g/cm³ (8.3 lbs/gal)
Relative density	Not determined.
Vapor density	Not determined.
Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.
Partition coefficient (n-octanol/water):	Not determined.
Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
Molecular weight	Not applicable.
Other information	No further relevant information available.

*

10 Stability and reactivity

Reactivity Stable under normal conditions.

Chemical stability

Thermal decomposition: No decomposition if used according to specifications.

Possibility of hazardous reactions No dangerous reactions known.

Conditions to avoid No further relevant information available.

Incompatible materials: No further relevant information available.

Hazardous decomposition products: Carbon monoxide and carbon dioxide

*

11 Toxicological information

Information on toxicological effects

Acute toxicity:

Primary irritant effect:

on the skin: No irritating effect expected

on the eye: No irritating effect expected

inhalation: No irritating effect expected

(Cont. on page 5)

Safety Data Sheet

Trade name: *Hydroduct® Waterproofing Products*

(Cont. from page 4)

Additional toxicological information:

Carcinogenic categories

IARC (International Agency for Research on Cancer) Human Carcinogenicity: **Group 1- Positive, Group 2A- Probable, Group 2B- Possible, Group 3- Not Classifiable**
None of the ingredients is listed.

NTP (National Toxicology Program) **K–Known to be carcinogenic, R–May reasonably be anticipated to be carcinogenic**
None of the ingredients is listed.

OSHA-Ca (Occupational Safety & Health Administration)
None of the ingredients is listed.

*

12 Ecological information

Toxicity

Aquatic toxicity: No further relevant information available.

Persistence and degradability No further relevant information available.

Behavior in environmental systems:

Bioaccumulative potential No further relevant information available.

Mobility in soil No further relevant information available.

Additional ecological information:

General notes: Not known to be hazardous to water.

Results of PBT and vPvB assessment

PBT: Not applicable.
vPvB: Not applicable.

Other adverse effects No further relevant information available.

*

13 Disposal considerations

Disposal methods:

Consult all regulations (federal, state, provincial, local) or a qualified waste disposal firm when characterizing product for disposal. Dispose of waste in accordance with all applicable regulations.

Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Uncleaned packagings:

Recommendation: Dispose of contents/container in accordance with local/regional/national/international regulations.

*

14 Transport information

UN-Number	
DOT, IMDG, IATA	Not applicable.

(Cont. on page 6)

Safety Data Sheet

Trade name: *Hydroduct® Waterproofing Products*

(Cont. from page 5)

UN proper shipping name
DOT, IMDG, IATA Not applicable.

Transport hazard class(es)

DOT, IMDG, IATA
Class Not applicable.

Packing group
DOT, IMDG, IATA Not applicable.

Environmental hazards:
Marine pollutant: No

Special precautions for user Not applicable.

Transport/Additional information: Not classified as a dangerous good for transport by road, rail or air.

DOT
Remarks: Not Regulated.

UN "Model Regulation": Not applicable.

*

15 Regulatory information

SARA (Superfund Amendments and Reauthorization Act)

Section 302/304 (extremely hazardous substances):
None of the ingredients is listed.

Section 313 Reportable Ingredients (Chemicals present below reporting threshold are exempt):
None of the ingredients is listed.

SARA Section 312/Tier I & II Hazard Categories: None

North America Chemical Inventory Status

TSCA (Toxic Substances Control Act - United States):
All ingredients are listed or exempt from listing unless otherwise noted below.

CEPA (Canadian DSL):
All ingredients are listed or exempt from listing unless otherwise noted below.

California Proposition 65: (Substances <0.1% unless noted in Section 3)

Chemicals known to cause cancer:
None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for females:
None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for males:
None of the ingredients is listed.

Chemicals known to cause developmental toxicity:
None of the ingredients is listed.

Carcinogenicity Categories

TLV-ACGIH (THE American Conference of Governmental Industrial Hygienists)
Human Carcinogen - A1 Confirmed, A2 Suspected, A3 Unknown Relevance, A4 Not Classifiable
None of the ingredients is listed.

NIOSH-Cancer (National Institute for Occupational Safety and Health)
None of the ingredients is listed.

Volatile Organic Compounds (VOC) reported per the Emission Standards.
If no g/L value is provided this product is not subject to above standard.

(Cont. on page 7)

Safety Data Sheet

Trade name: *Hydroduct® Waterproofing Products*

(Cont. from page 6)

*

16 Other information

The data included herein are presented in accordance with various environment, health and safety regulations. It is the responsibility of a recipient of the data to remain currently informed on chemical hazard information, to design and update its own program and to comply with all national, federal, state and local laws and regulations applicable to safety, occupational health, right-to-know and environmental protection.

This SDS is for the following products: Hydroduct® 220, Hydroduct® 225, Hydroduct® 500, Hydroduct® 500 RS, Hydroduct® 550, Hydroduct® 550 RS, Hydroduct® 600, Hydroduct® 600 coil, Hydroduct® 660.

Department issuing SDS:

GCP Applied Technologies
62 Whittemore Avenue
Cambridge, MA 02140 USA
USA: +1-617-876-1400 (24 hours)
+1-800-354-5414

Date of preparation / last revision 04/13/2018 / -

The first date of preparation 04/13/2018

Number of revision times and the latest revision date 1.0 / 04/13/2018

USGHS

Safety Data Sheet

Printing date 11/10/2016 **Version Number 1.0** **Reviewed on 11/10/2016**

*

1 Identification

Product identifier

Trade name: ***Adcor 500S***

SDS ID Number: 2734

Relevant identified uses of the substance or mixture, and uses advised against
Specialty construction product. Not intended for other uses

Details of the supplier of the safety data sheet

Manufacturer/Supplier:
GCP Applied Technologies
62 Whittemore Avenue
Cambridge, MA 02140 USA

GCP Canada, Inc.
294 Clements Road W.
Ajax, Ontario L1S 3C6 Canada

Information department:

Environmental Health & Safety
USA: +1-617-876-1400 (24 hours)
+1-800-354-5414 (8AM - 5PM) Not functional within Massachusetts
CAN: 1-905-683-8561 (24 hours)
Email address: msds.gcp@gcpat.com

Transport Emergency: Chemtrec +1-800-424-9300 (24 hours)

2 Hazard(s) identification

Classification of the substance or mixture
The product is not classified according to the Globally Harmonized System (GHS).

Label elements:

Hazard pictograms Not applicable.

Not applicable.

Hazard statements Not applicable.
NFPA ratings (scale 0 - 4)

Health = 1
Fire = 0
Reactivity = 0

HMIS-ratings (scale 0 - 4)

Health = 1
Flammability = 0
Reactivity = 0

Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.
vPvB: Not applicable.

(Cont. on page 2)

Safety Data Sheet

Trade name: *Adcor 500S*

(Cont. from page 1)

*
3 Composition/information on ingredients

Chemical characterization: Mixture

Hazardous components: Not applicable.

Additional information: Non-hazardous ingredients may be listed in Section 15; Right-To-Know disclosure.

*
4 First-aid measures

Description of first aid measures

General information: Get medical advice/attention if you feel unwell.

After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

After skin contact:
Immediately wash contaminated skin with soap or mild detergent and water. If this chemical soaks clothing, immediately remove clothing and wash skin.

After eye contact: Rinse cautiously with water for several minutes.

After swallowing:

Rinse mouth.

Do NOT induce vomiting.

Information for doctor:

Most important symptoms and effects, both acute and delayed No further relevant information available.

Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

Special hazards arising from the substance or mixture No further relevant information available.

Additional information Collect contaminated fire fighting water separately. It must not enter the sewage system.

*
6 Accidental release measures

Environmental precautions: No special measures required.

Methods and material for containment and cleaning up: No special measures required.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

*
7 Handling and storage

Handling:

Precautions for safe handling No special precautions are necessary if used correctly.

Information about protection against explosions and fires: No special measures required.

(Cont. on page 3)

Safety Data Sheet

Trade name: *Adcor 500S*

(Cont. from page 2)

Conditions for safe storage, including any incompatibilities

Storage:

Information about storage in one common storage facility: No special measures required.

Further information about storage conditions: Keep receptacle tightly sealed.

Specific end use(s) No further relevant information available.

*

8 Exposure controls/personal protection

Additional information about design of technical systems: No further data; see item 7.

Control parameters

Components with limit values that require monitoring at the workplace:
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional information: The lists that were valid during the creation were used as basis.

Exposure controls

Personal protective equipment:

General protective and hygienic measures: The usual precautionary measures for handling chemicals should be followed.

Breathing equipment:

Control exposure to ingredients with workplace control parameters if mentioned above. If no ingredients are listed, respiratory protection is generally not required.

If exposure limits are listed and may be exceeded, use approved respiratory protective equipment and filter type appropriate for the listed ingredients. (NIOSH, CEN, etc.).

Protection of hands: Protective gloves

Eye protection:

Safety glasses with side shield protection.

Body protection:

Use personal protective equipment as required.

Take off contaminated clothing.

*

9 Physical and chemical properties

Information on basic physical and chemical properties

General Information	
Appearance:	
Form:	Solid
Color:	According to product specification
Odor:	Characteristic
Odor threshold:	Not determined.
pH-value (~):	Not applicable.
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.
Flash point:	Not applicable.

(Cont. on page 4)

Safety Data Sheet

Trade name: *Adcor 500S*

(Cont. from page 3)

Flammability (solid, gaseous):	Not determined.
Decomposition temperature:	Not determined.
Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not applicable.
Upper:	Not applicable.
VOC Content (max):	Not applicable.
Vapor pressure:	Not applicable.
Density: (~)	Not determined.
Relative density	Not determined.
Vapor density	Not applicable.
Evaporation rate	Not applicable.
Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.
Partition coefficient (n-octanol/water):	Not determined.
Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
Molecular weight	Not applicable.
Other information	No further relevant information available.

*

10 Stability and reactivity

Reactivity Stable under normal conditions.

Chemical stability

Thermal decomposition: No decomposition if used and stored according to specifications.

Possibility of hazardous reactions No dangerous reactions known.

Conditions to avoid No further relevant information available.

Incompatible materials: No further relevant information available.

Hazardous decomposition products: Carbon monoxide and carbon dioxide

11 Toxicological information

Information on toxicological effects

Acute toxicity:

Primary irritant effect:

on the skin: No irritating effect expected

on the eye: No irritating effect expected

inhalation: No irritating effect expected

Additional toxicological information:

Carcinogenic categories

IARC (International Agency for Research on Cancer) Human Carcinogenicity: **Group 1- Positive, Group 2A- Probable, Group 2B- Possible, Group 3- Not Classifiable**
None of the ingredients is listed.

(Cont. on page 5)

Safety Data Sheet

Trade name: *Adcor 500S*

(Cont. from page 4)

NTP (National Toxicology Program) **K–Known to be carcinogenic, R–May reasonably be anticipated to be carcinogenic**
None of the ingredients is listed.

OSHA-Ca (Occupational Safety & Health Administration)
None of the ingredients is listed.

12 Ecological information

Toxicity

Aquatic toxicity: No further relevant information available.

Persistence and degradability

No further relevant information available.

Behavior in environmental systems:

Bioaccumulative potential No further relevant information available.

Mobility in soil No further relevant information available.

Additional ecological information:

General notes: Not known to be hazardous to water.

Results of PBT and vPvB assessment

PBT: Not applicable.
vPvB: Not applicable.

Other adverse effects

No further relevant information available.

*

13 Disposal considerations

Waste treatment methods

Comply with Federal, State and local regulations.

Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.

*

14 Transport information

UN-Number	
DOT, IMDG, IATA	Not applicable.
UN proper shipping name	
DOT, IMDG, IATA	Not applicable.
Transport hazard class(es)	
DOT, IMDG, IATA	
Class	Not applicable.
Packing group	
DOT, IMDG, IATA	Not applicable.

(Cont. on page 6)

Safety Data Sheet

Trade name: *Adcor 500S*

(Cont. from page 5)

Environmental hazards: Not applicable.

Special precautions for user Not applicable.

Transport/Additional information:

DOT
Remarks: Not Regulated.

*

15 Regulatory information

SARA (Superfund Amendments and Reauthorization Act)

Section 302/304 (extremely hazardous substances):
None of the ingredients is listed.

Section 313 Reportable Ingredients (Chemicals present below reporting threshold are exempt):
None of the ingredients is listed.

SARA Section 312/Tier I & II Hazard Categories: None

North America Chemical Inventory Status

TSCA (Toxic Substances Control Act - United States):
None of the ingredients is listed.

CEPA (Canadian DSL):
None of the ingredients is listed.

Right to Know Ingredient Disclosure:
Article - NON Regulated/Hazardous Components

California Proposition 65

Chemicals known to cause cancer:
None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for females:
None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for males:
None of the ingredients is listed.

Chemicals known to cause developmental toxicity:
None of the ingredients is listed.

Carcinogenicity Categories

EPA (Environmental Protection Agency)
None of the ingredients is listed.

TLV-ACGIH (THE American Conference of Governmental Industrial Hygienists)
Human Carcinogen - A1 Confirmed, A2 Suspected, A3 Unknown Relevance, A4 Not Classifiable
None of the ingredients is listed.

NIOSH-Cancer (National Institute for Occupational Safety and Health)
None of the ingredients is listed.

Volatile Organic Compounds (VOC) reported per the Emission Standards.
If no g/L value is provided this product is not subject to above standard.

*

16 Other information

The data included herein are presented in accordance with various environment, health and safety regulations. It is the responsibility of a recipient of the data to remain currently informed on chemical hazard information, to design and update its own program and to comply with all national, federal, state and local laws and regulations applicable to safety, occupational health, right-to-know and environmental protection.

(Cont. on page 7)

Safety Data Sheet

Trade name: *Adcor 500S*

(Cont. from page 6)

Department issuing SDS:

GCP Applied Technologies
62 Whittemore Avenue
Cambridge, MA 02140 USA
USA: +1-617-876-1400 (24 hours)
+1-800-354-5414

Date of preparation / last revision 11/10/2016 / -

The first date of preparation 11/10/2016

Number of revision times and the latest revision date 1.0 / 11/10/2016

Safety Data Sheet

Printing date 06/11/2019 **Version Number 2.0** **Reviewed on 06/11/2019**

*

1 Identification

Product identifier

Trade name: ***ADCOR 500S Adhesive***

SDS ID Number: 2966

Relevant identified uses of the substance or mixture, and uses advised against:
Specialty construction product. Not intended for other uses.

Details of the supplier of the safety data sheet

Manufacturer/Supplier:

GCP Applied Technologies
62 Whittemore Avenue
Cambridge, MA 02140 USA

GCP Canada, Inc.
294 Clements Road W.
Ajax, Ontario L1S 3C6 Canada

Information department:

Environmental Health & Safety
USA: +1-617-876-1400 (24 hours)
+1-800-354-5414 (8AM - 5PM) Not functional within Massachusetts
CAN: 1-905-683-8561 (24 hours)
Email address: msds.gcp@gcpat.com

Transport Emergency: Chemtrec +1-800-424-9300 (24 hours)

2 Hazard(s) identification

Classification of the substance or mixture

May cause an allergic skin reaction.

Label elements: The product is classified and labeled according to the Globally Harmonized System (GHS)

Hazard pictograms

Warning

Hazard statements
May cause an allergic skin reaction.
Precautionary statements
Avoid breathing dust/fume/gas/mist/vapors/spray
Contaminated work clothing should not be allowed out of the workplace.
Wear protective gloves.
If on skin: Wash with plenty of water.
If skin irritation or rash occurs: Get medical advice/attention.
Wash contaminated clothing before reuse.
Dispose of contents/container in accordance with local/regional/national/international regulations.
NFPA ratings (scale 0 - 4)

Health = 2
Fire = 1
Reactivity = 0

(Cont. on page 2)

Safety Data Sheet

Trade name: *ADCOR 500S Adhesive*

(Cont. from page 1)

HMIS-ratings (scale 0 - 4)

HEALTH	2
FIRE	1
REACTIVITY	0

Health = 2
Flammability = 1
Reactivity = 0

Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.
vPvB: Not applicable.

3 Composition/information on ingredients

Chemical characterization: Mixture

Description: Mixture of the hazardous substance(s) listed below with additional nonhazardous ingredients.

Hazardous components:		
1760-24-3	N-(3-(trimethoxysilyl)propyl)ethylenediamine	0.1-<1%

Additional information: Non-hazardous ingredients may be listed in Section 15; Right-To-Know disclosure.

4 First-aid measures

Description of first aid measures

General information: Get medical advice/attention if you feel unwell.

After inhalation: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

After skin contact:
Immediately wash contaminated skin with soap or mild detergent and water. If this chemical soaks clothing, immediately remove clothing and wash skin.

After eye contact: Rinse cautiously with water for several minutes.

After swallowing:

Rinse mouth.

Do NOT induce vomiting.

Information for doctor:

Most important symptoms and effects, both acute and delayed Allergic reactions

Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

Special hazards arising from the substance or mixture No further relevant information available.

Advice for firefighters

Protective equipment: Wear personal protective equipment.

Additional information Collect contaminated fire fighting water separately. It must not enter the sewage system.

(Cont. on page 3)

Safety Data Sheet

Trade name: *ADCOR 500S Adhesive*

(Cont. from page 2)

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Methods and material for containment and cleaning up:

Dispose contaminated material as waste according to section 13 of the SDS.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

Handling:

Precautions for safe handling Prevent formation of aerosols.

Information about protection against explosions and fires: No special measures required.

Conditions for safe storage, including any incompatibilities

Storage:

Information about storage in one common storage facility: No special measures required.

Further information about storage conditions: Keep receptacle tightly sealed.

Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

Additional information about design of technical systems: No further data; see item 7.

Control parameters

Components with limit values that require monitoring at the workplace:
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional information: The lists that were valid during the creation were used as basis.

Exposure controls

Personal protective equipment:

General protective and hygienic measures: The usual precautionary measures for handling chemicals should be followed.

Breathing equipment:

Control exposure to ingredients with workplace control parameters if mentioned above. If no ingredients are listed, respiratory protection is generally not required.

If exposure limits are listed and may be exceeded, use approved respiratory protective equipment and filter type appropriate for the listed ingredients. (NIOSH, CEN, etc.).

Protection of hands: Gloves should be worn to prevent skin contact and should be impermeable and resistant to the product.

Material of gloves Rubber or other impervious gloves should be worn to prevent skin contact.

Eye protection:

Safety glasses with side shield protection.

(Cont. on page 4)

Safety Data Sheet

Trade name: *ADCOR 500S Adhesive*

(Cont. from page 3)

Body protection:

Use personal protective equipment as required.

Take off contaminated clothing.

*

9 Physical and chemical properties

Information on basic physical and chemical properties

General Information	
Appearance:	
Form:	Paste
Color:	White
Odor:	Characteristic
Odor threshold:	Not determined.
pH-value (~):	Not determined.
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.
Flash point:	Not applicable.
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	Not applicable.
Decomposition temperature:	Not determined.
Auto igniting:	Not determined.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
VOC Content (max):	Not determined.
Vapor pressure:	Not determined.
Density: (~) at 20 °C (68 °F)	1.5 g/cm³ (12.5 lbs/gal)
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.
Partition coefficient (n-octanol/water):	Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Molecular weight	Not applicable.
Other information	No further relevant information available.

10 Stability and reactivity

Reactivity

Stable under normal conditions.

No further relevant information available.

Chemical stability

Thermal decomposition: No decomposition if used according to specifications.

(Cont. on page 5)

Safety Data Sheet

Trade name: *ADCOR 500S Adhesive*

(Cont. from page 4)

Possibility of hazardous reactions
No dangerous reactions known.
No further relevant information available.

Conditions to avoid No further relevant information available.

Incompatible materials: No further relevant information available.

Hazardous decomposition products: Carbon monoxide and carbon dioxide

11 Toxicological information

Information on toxicological effects

Acute toxicity:

Primary irritant effect:

on the skin: No irritating effect expected

on the eye: No irritating effect expected

inhalation: No irritating effect expected

Sensitization: May cause an allergic skin reaction.

Additional toxicological information:

Carcinogenic categories

IARC (International Agency for Research on Cancer) Human Carcinogenicity: **Group 1- Positive, Group 2A- Probable, Group 2B- Possible, Group 3- Not Classifiable**
None of the ingredients are listed.

NTP (National Toxicology Program) **K–Known to be carcinogenic, R–May reasonably be anticipated to be carcinogenic**
None of the ingredients are listed.

OSHA-Ca (Occupational Safety & Health Administration)
None of the ingredients are listed.

12 Ecological information

Toxicity

Aquatic toxicity: No further relevant information available.

Persistence and degradability No further relevant information available.

Behavior in environmental systems:

Bioaccumulative potential No further relevant information available.

Mobility in soil No further relevant information available.

Additional ecological information:

General notes: Not known to be hazardous to water.

Results of PBT and vPvB assessment

PBT: Not applicable.
vPvB: Not applicable.

Other adverse effects No further relevant information available.

(Cont. on page 6)

Safety Data Sheet

Trade name: *ADCOR 500S Adhesive*

(Cont. from page 5)

*

13 Disposal considerations

Disposal methods:

Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Uncleaned packagings:

Recommendation: Dispose of contents/container in accordance with local/regional/national/international regulations.

*

14 Transport information

UN-Number **DOT, IMDG, IATA**	Not applicable.
UN proper shipping name **DOT, IMDG, IATA**	Not applicable.
Transport hazard class(es) **DOT, IMDG, IATA** **Class**	Not applicable.
Packing group **DOT, IMDG, IATA**	Not applicable.
Environmental hazards:	Not applicable.
Special precautions for user	Not applicable.
Transport/Additional information: **DOT** **Remarks:**	Not Regulated.
UN "Model Regulation":	Not applicable.

*

15 Regulatory information

SARA (Superfund Amendments and Reauthorization Act)

Section 302/304 (extremely hazardous substances):

None of the ingredients is listed.

Section 313 Reportable Ingredients (Chemicals present below reporting threshold are exempt):

None of the ingredients is listed.

SARA Section 312/Tier I & II Hazard Categories: Health Hazard - Respiratory or Skin Sensitization

North America Chemical Inventory Status

TSCA (Toxic Substances Control Act - United States):

All ingredients are listed or exempt from listing unless otherwise noted below.

CEPA (Canadian DSL):

All ingredients are listed or exempt from listing unless otherwise noted below.

Right to Know Ingredient Disclosure:

	Proprietary Nonhazardous Polymer - NJTSN 801416152
471-34-1	Calcium carbonate; limestone powder

(Cont. on page 7)

Safety Data Sheet

Trade name: *ADCOR 500S Adhesive*

(Cont. from page 6)

	Proprietary plasticizer - NJTSN 801416153

California Proposition 65: (Substances <0.1% unless noted in Section 3)

Chemicals known to cause cancer:

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

Chemicals known to cause developmental toxicity:

67-56-1	Methanol

Carcinogenicity Categories

TLV-ACGIH (THE American Conference of Governmental Industrial Hygienists)
Human Carcinogen - A1 Confirmed, A2 Suspected, A3 Unknown Relevance, A4 Not Classifiable

None of the ingredients are listed.

NIOSH-Cancer (National Institute for Occupational Safety and Health)

None of the ingredients are listed.

Volatile Organic Compounds (VOC) reported per the Emission Standards. 30 g/l

*
16 Other information

The data included herein are presented in accordance with various environment, health and safety regulations. It is the responsibility of a recipient of the data to remain currently informed on chemical hazard information, to design and update its own program and to comply with all national, federal, state and local laws and regulations applicable to safety, occupational health, right-to-know and environmental protection.

Department issuing SDS:

GCP Applied Technologies
62 Whittemore Avenue
Cambridge, MA 02140 USA
USA: +1-617-876-1400 (24 hours)
+1-800-354-5414

The first date of preparation 10/31/2018

Number of revision times and the latest revision date 2.0 / 06/11/2019

USGHS

SILCOR® Liquid Waterproofing System

Five Year Material Warranty

WARRANTY NO. _____

NAME OF BUILDING _____

LOCATION OF BUILDING _____

NAME OF OWNER _____

CONTRACTOR _____

PRODUCT(S) USED SILCOR® 900MP

TOTAL AREA (SF) _____

DATE OF COMPLETED INSTALLATION _____

GCP Applied Technologies Inc. ("GCP") hereby warrants that for a period of Five (5) years from the date of completed installation identified above, water will not pass directly through properly cured, homogeneous SILCOR® Liquid Waterproofing System when installed and used in strict conformance with the written instructions of GCP.

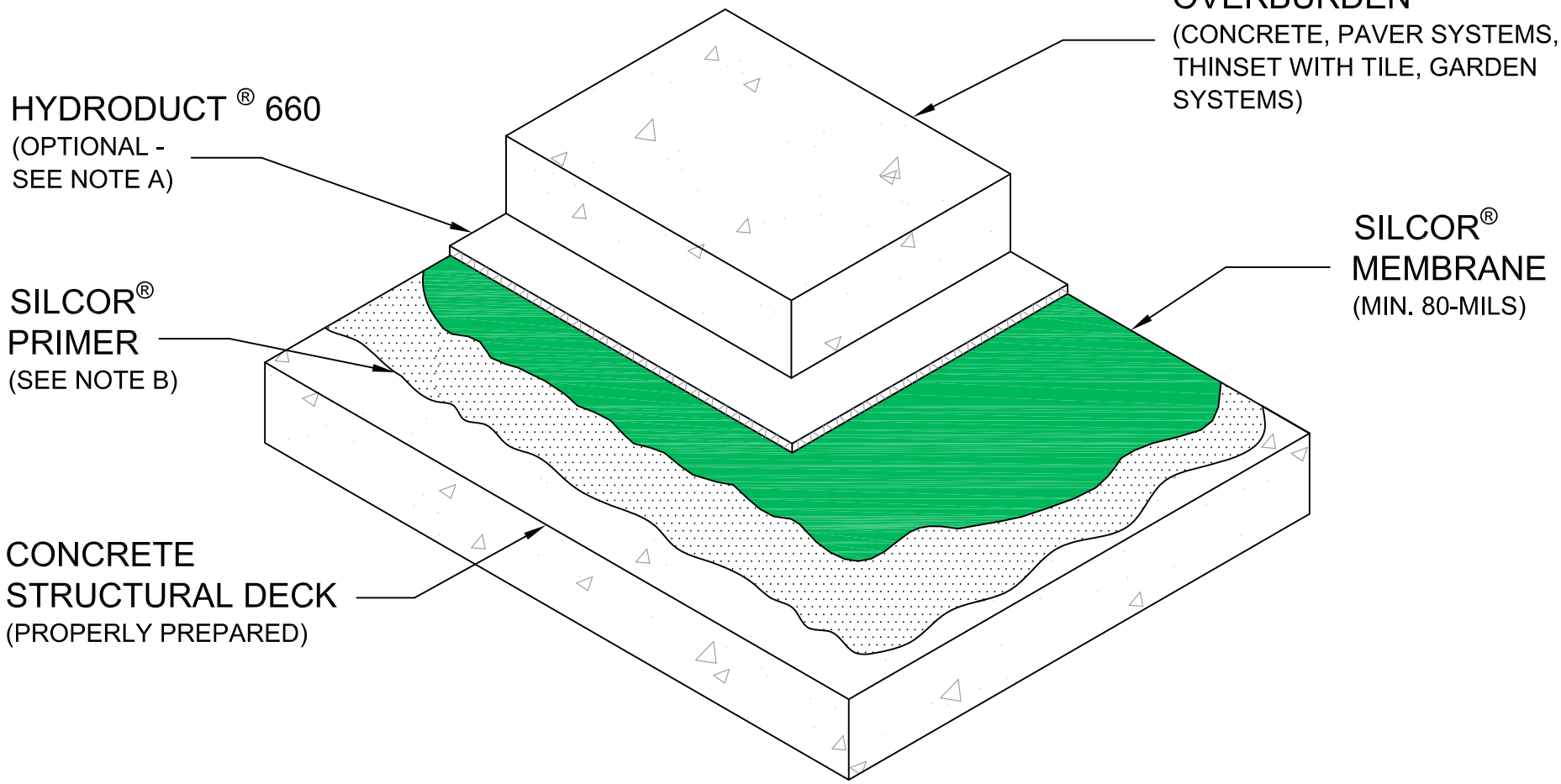
If at any time during such Five (5) year period the SILCOR® Liquid Waterproofing System is found by GCP not to comply with this warranty, then GCP will supply to the owner a replacement SILCOR® Liquid Waterproofing in a quantity equal to the material found to be nonconforming, with a value not to exceed the purchase price for the material paid to GCP for the original installation.

This warranty does not apply to any failure caused by or due to workmanship or improper installation of the SILCOR® Liquid Waterproofing System, abuse of the SILCOR® Liquid Waterproofing System or chemical incompatibility with other materials, acts of God, movement or cracks in excess of 1/32 inch of the immediate substrate, inadequate or faulty design of the subject structure or to repairs or installations made by other persons not authorized by GCP. In addition, this warranty does not cover any costs or expenses associated with 1) the removal, excavation or replacement of any material in connection with the testing, repair, removal or replacement of the SILCOR® Liquid Waterproofing System and, 2) damages or repairs of any kind or nature to the subject building or its' contents from leaking water or otherwise.

THE FOREGOING WARRANTY IS EXCLUSIVE AND IS IN LIEU OF ANY AND ALL OTHER GUARANTEES OR WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION THE IMPLIED WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE REMEDIES OF THE OWNER FOR ANY BREACH OF THIS WARRANTY SHALL BE LIMITED TO THOSE HEREIN PROVIDED TO THE EXCLUSION OF ANY AND ALL OTHER REMEDIES. GCP SHALL NOT BE LIABLE IN ANY CASE FOR ANY DAMAGE TO THE BUILDING OR THE CONTENTS THEREOF, NOR WILL IT BE RESPONSIBLE FOR SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR PENAL DAMAGES. NO AGREEMENT VARYING OR EXTENDING THE FOREGOING WARRANTY REMEDIES WILL BE BINDING UPON GCP UNLESS IN WRITING, SIGNED BY A DULY AUTHORIZED OFFICER OF GCP.

GCP Applied Technologies Inc.

By Title _____ Date _____



NOTES:

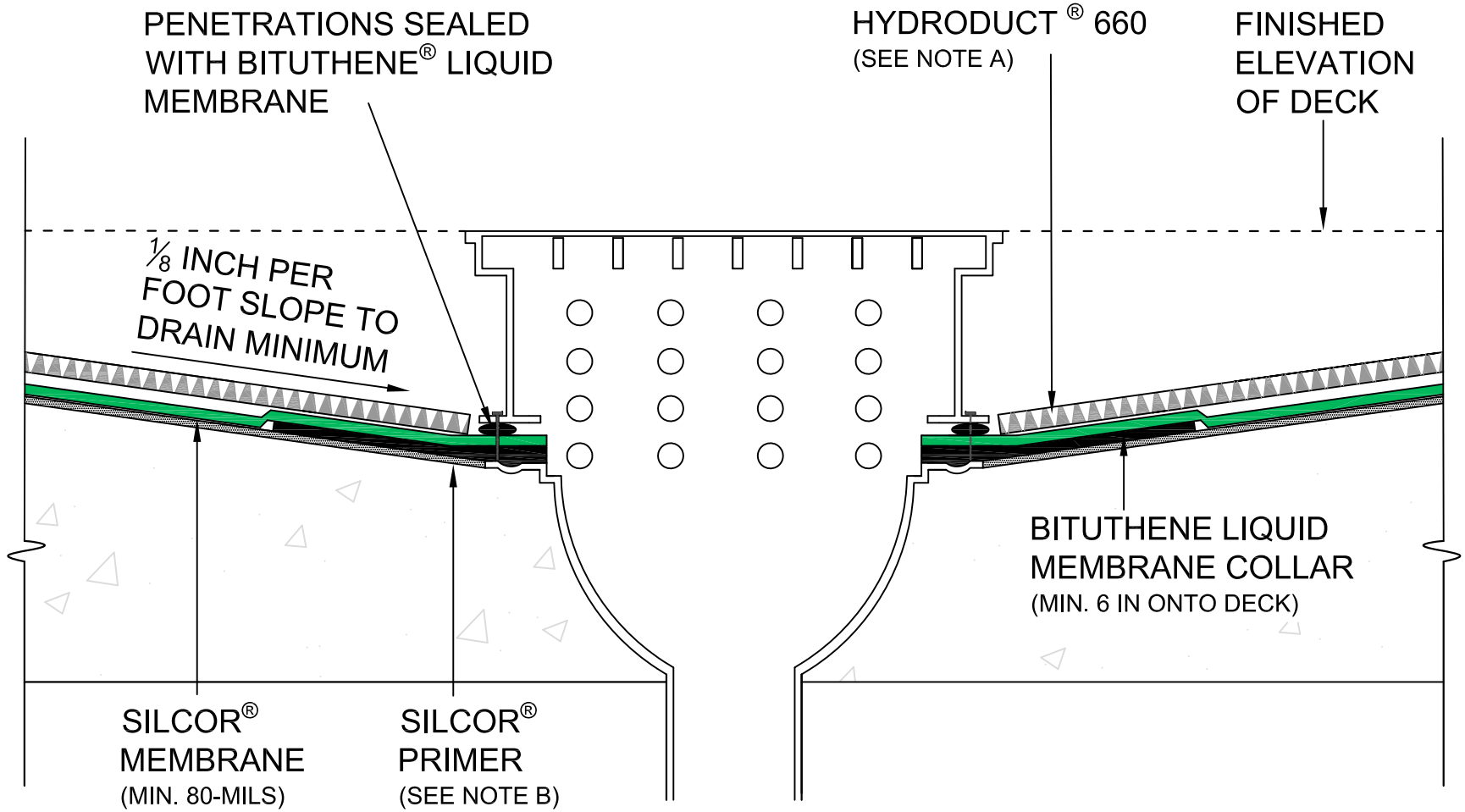
A. PROTECTION COURSE SHOWN BUT NOT REQUIRED UNLESS SPECIFIED BY DESIGNER
B. SILCOR PRIMER WITH QUARTZ SAND BROADCAST
C. REFER TO PRODUCT DATA SHEETS FOR ADDITIONAL APPLICATION INSTRUCTIONS

gcp applied technologies

GENERAL ASSEMBLY

SILCOR® WATERPROOFING SYSTEM

DRAWING:	SIL-001
SCALE:	Not to scale
EFFECTIVE DATE:	07/01/2016
SUPERCEDES:	NEW



NOTES:

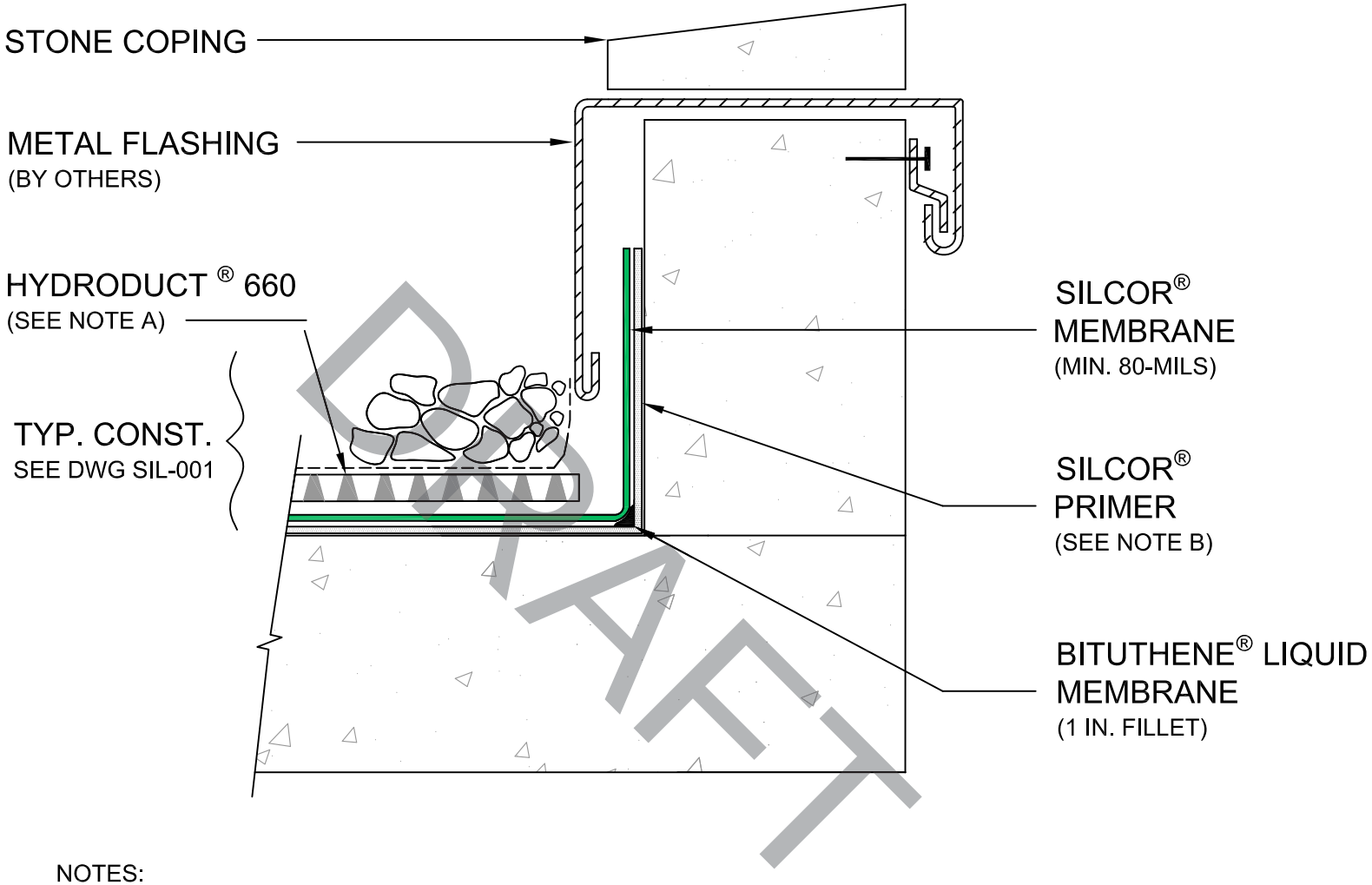
A. PROTECTION COURSE SHOWN BUT NOT REQUIRED UNLESS SPECIFIED BY DESIGNER
B. SILCOR PRIMER WITH QUARTZ SAND BROADCAST
C. REFER TO PRODUCT DATA SHEETS FOR ADDITIONAL APPLICATION INSTRUCTIONS

gcp applied technologies

DRAIN

SILCOR® WATERPROOFING SYSTEM

DRAWING:	SIL-002
SCALE:	Not to scale
EFFECTIVE DATE:	07/01/2016
SUPERCEDES:	NEW



NOTES:

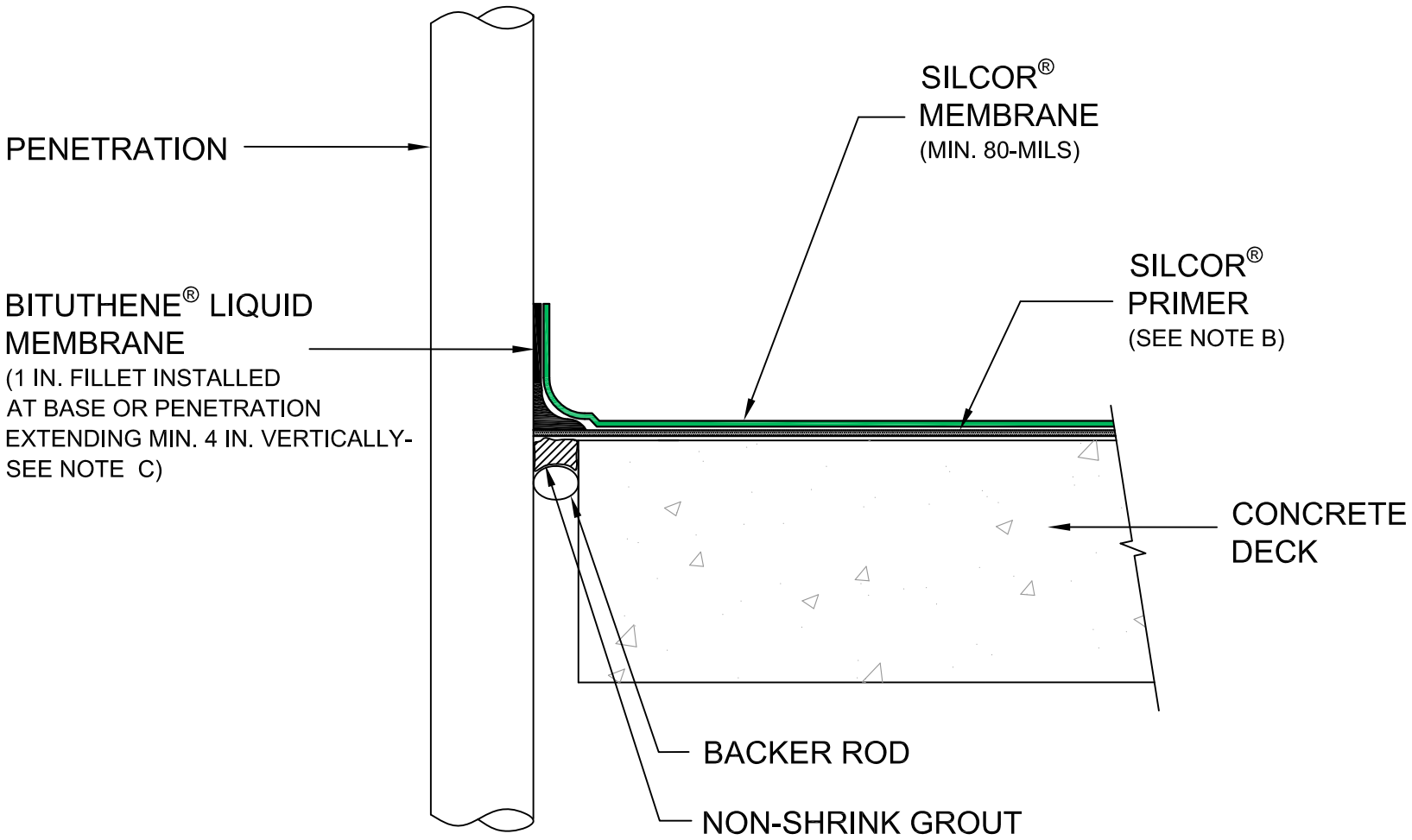
A. PROTECTION COURSE SHOWN BUT NOT REQUIRED UNLESS SPECIFIED BY DESIGNER
B. SILCOR PRIMER WITH QUARTZ SAND BROADCAST
C. REFER TO PRODUCT DATA SHEETS FOR ADDITIONAL APPLICATION INSTRUCTIONS

gcp applied technologies

DECK TO WALL OR PARAPET

SILCOR® WATERPROOFING SYSTEM

DRAWING: SIL-003
SCALE: Not to scale
EFFECTIVE DATE: 07/01/2016
SUPERCEDES: NEW



NOTES:

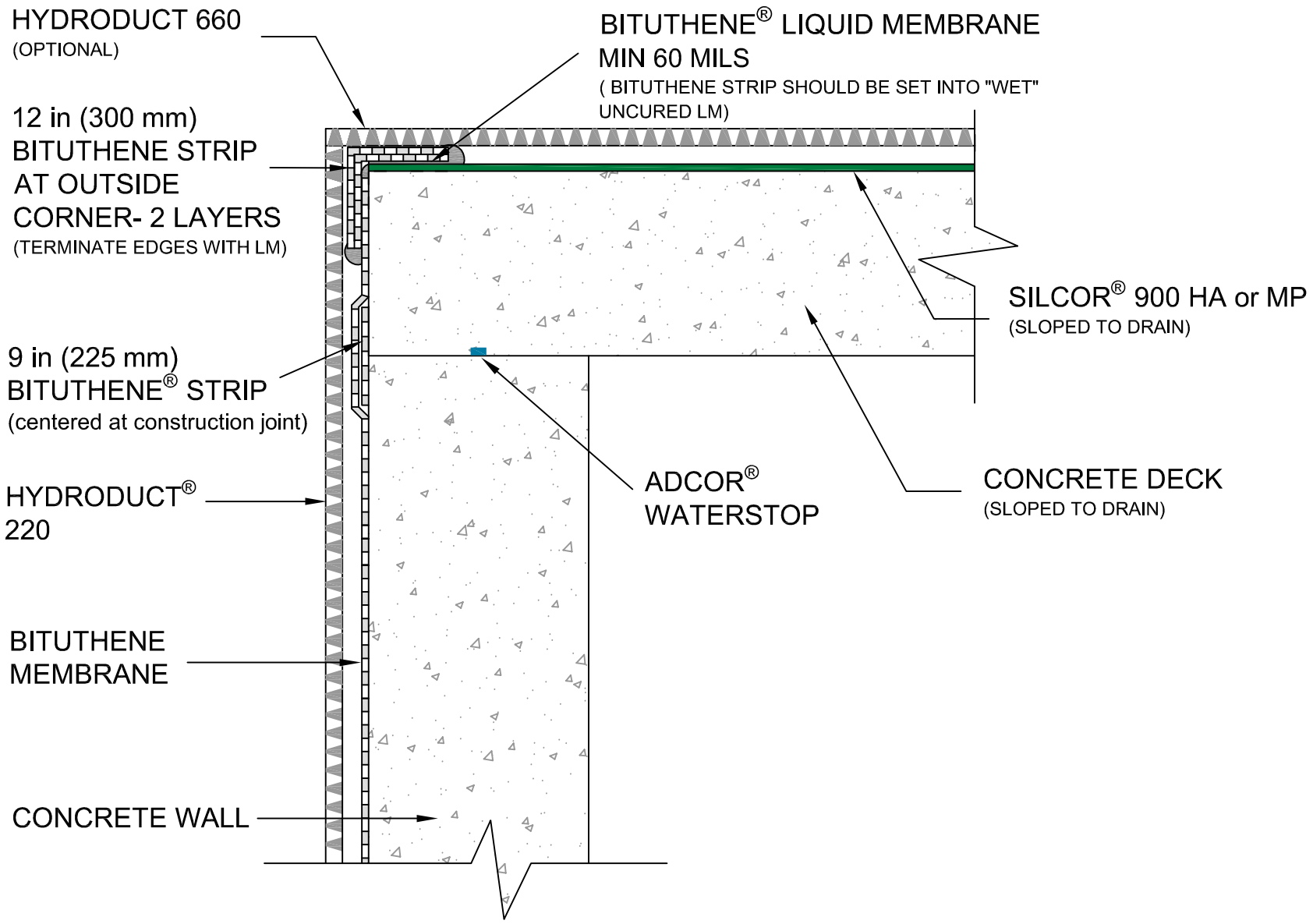
A. GROUT PENETRATION TO PREVENT MOVEMENT WHICH MAY COMPROMISE THE WATERPROOFING INTEGRITY
B. SILCOR PRIMER WITH QUARTZ SAND BROADCAST
C. PENETRATION MUST BE FREE OF CONNECTIONS, OBSTRUCTIONS, SUPPORTS WITHIN THE DETAILING AREA. PENETRATIONS MUST ALSO BE ABRADED TO MAXIMIZE ADHESION OF THE SYSTEM
D. REFER TO PRODUCT DATA SHEETS FOR ADDITIONAL APPLICATION INSTRUCTIONS

gcp applied technologies

PENETRATION

SILCOR® WATERPROOFING SYSTEM

DRAWING: SIL-003
SCALE: Not to scale
EFFECTIVE DATE: 09/01/2016
SUPERCEDES: 07012016



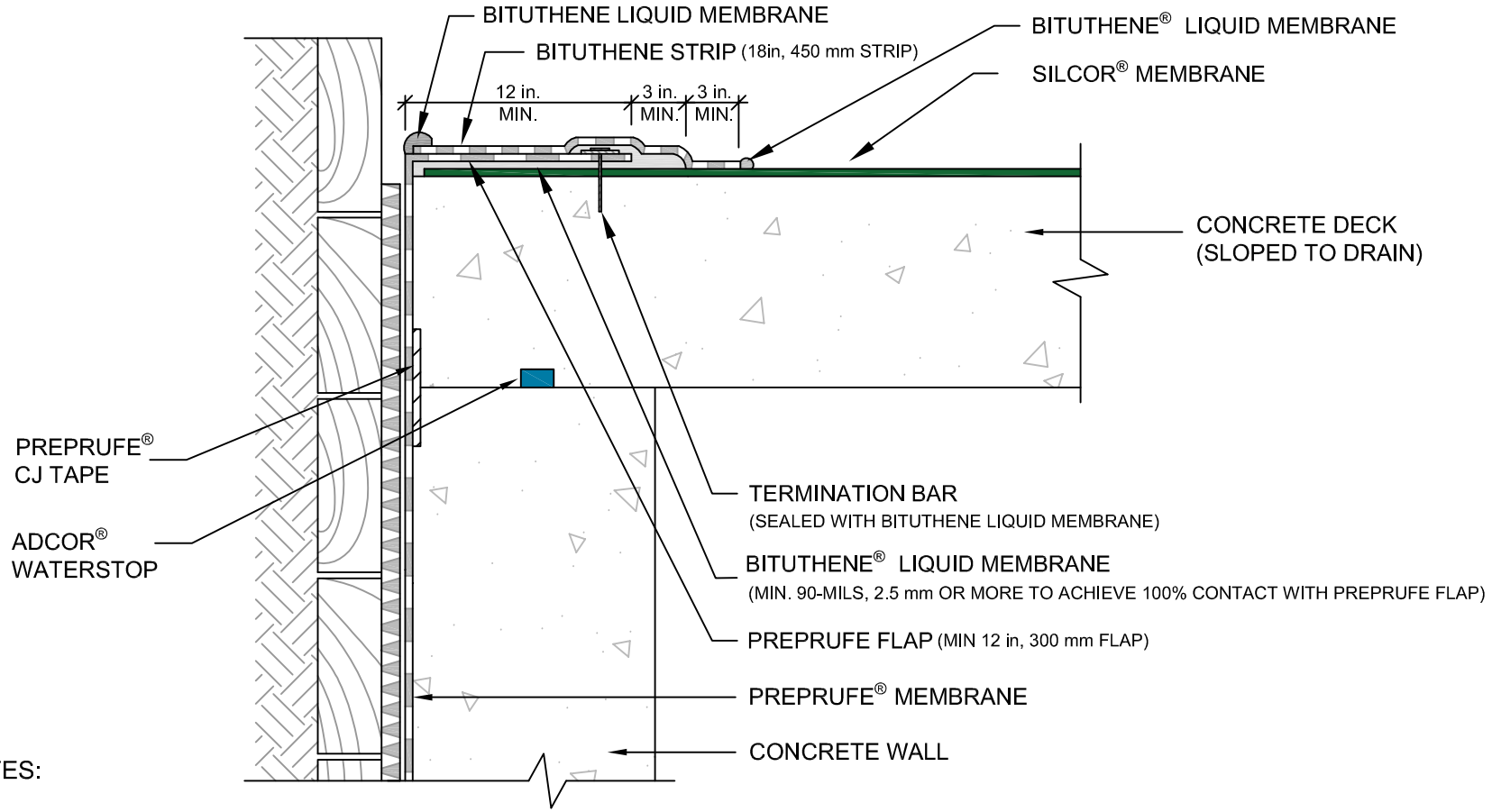
NOTE - GCP MAY REQUIRE AN ALTERNATE GCP WATERSTOP BASED ON DESIGN CONDITIONS

gcp applied technologies

SILCOR DECK TO WALL TIE IN

SILCOR® WATERPROOFING SYSTEM

DRAWING: SIL-170207
SCALE: Not to scale
EFFECTIVE DATE: 02/07/2017
SUPERCEDES: NEW



NOTES:

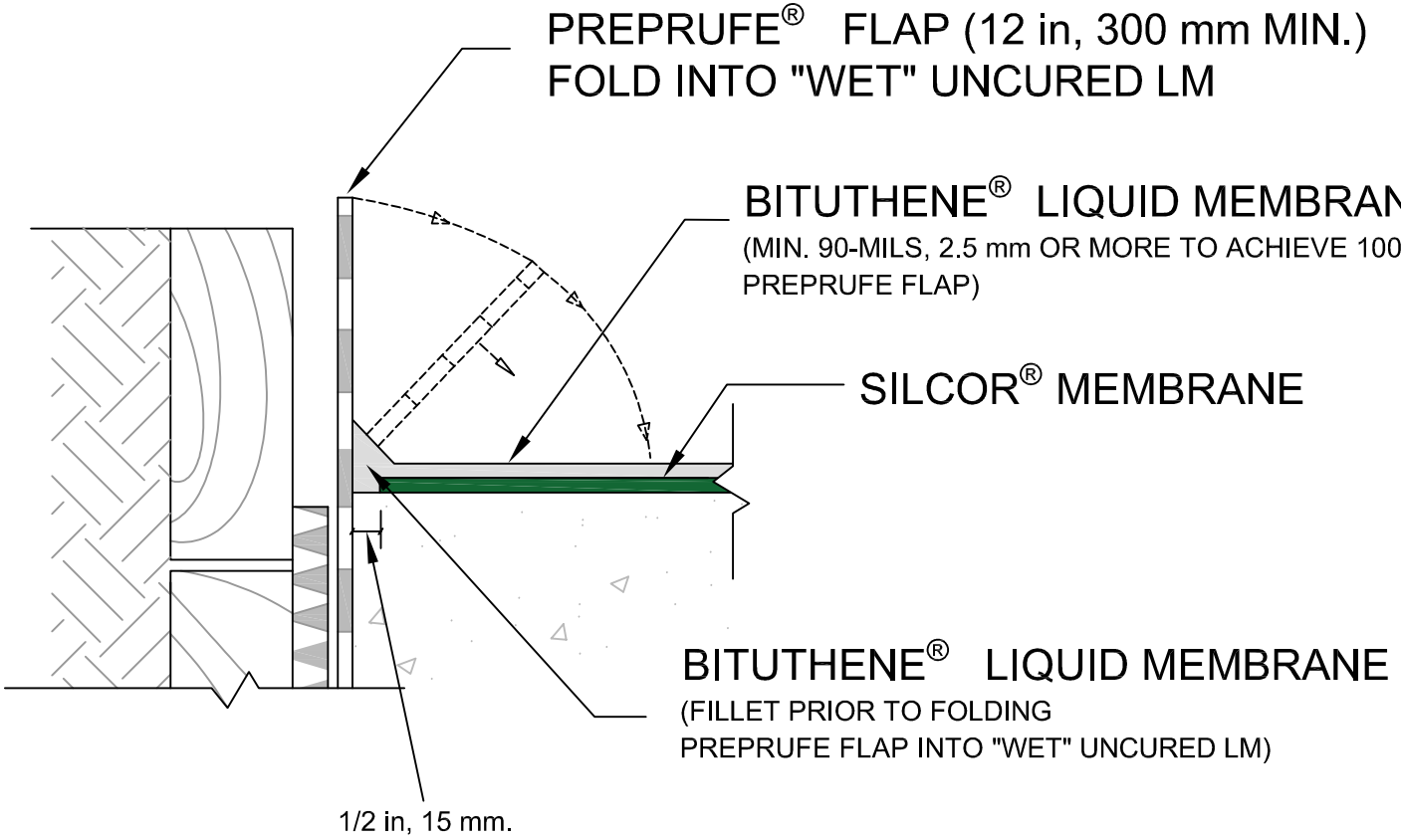
A. PROTECT THE PREPRUFE FLAP FROM DAMAGE AND OVERSPLASH DURING CONCRETE PLACEMENT
B. INSTALL SILCOR WATERPROOFING SYSTEM FOLLOWING ALL PROPER INSTALLATION PROCEDURES
C. INSTALL A MIN. OF 90-MILS, 2.5 mm BITUTHENE LIQUID MEMBRANE (LM) OVER SILCOR AS SHOWN
D. INSTALL A FILLET OF BITUTHENE LIQUID MEMBRANE AGAINST THE PREPRUFE FLAP PRIOR TO EMBEDDING THE FLAP INTO THE UNCURED (i.e. WET) LM (SEE NEXT DRAWING FOR ADDITIONAL DETAILING INSTRUCTIONS)
E. MAKE RELIEF CUTS AS NECESSARY IN THE PREPRUFE FLAP, ENSURING ANY RELIEF CUTS ARE A MIN. OF 1 in, 25 mm FROM THE FOLD, ALL RELIEF CUTS MUST BE SEALED WITH LM EXTENDING PAST THE CUT 3 in, 75 mm IN ALL DIRECTIONS
F. INSTALL TERMINATION BAR SEALED WITH LM AND ADD SAND BAGS AS BALLAST ONTO THE PREPRUFE FLAP, ONCE THE LM HAS FULLY CURED, REMOVE BALLAST
G. INSTALL BITUTHENE MEMBRANE AND SEAL ALL EDGES, CUTS AND LAPS A MINIMUM OF 18 in, 450 mm FROM THE PERIMETER WITH LM
H. HYDRODUCT 660 (OPTIONAL) NOT SHOWN FOR CLARITY
I. GCP MAY REQUIRE ALTERNATE GCP WATERSTOP BASED ON DESIGN CONDITIONS

gcp applied technologies

PREPRUFE® WATERPROOFING SYSTEM TIE-IN TO SILCOR® (INACESSABLE -1 of 2)

PRIOR REVIEW AND APPROVAL REQUIRED

Drawing: SIL-05042017-1
Scale: Not to Scale
Effective Date: 05/04/17
Supersedes: NEW



NOTES:

A. PROTECT THE PREPRUFE FLAP FROM DAMAGE AND OVERSPLASH DURING CONCRETE PLACEMENT
B. INSTALL SILCOR WATERPROOFING SYSTEM FOLLOWING ALL PROPER INSTALLATION PROCEDURES
C. INSTALL A MIN. OF 90-MILS, 2.5 mm BITUTHENE LIQUID MEMBRANE (LM) OVER SILCOR AS SHOWN
D. INSTALL A FILLET OF BITUTHENE LIQUID MEMBRANE AGAINST THE PREPRUFE FLAP PRIOR EMBEDDING THE FLAP INTO THE UNCURED (i.e. WET) LM
E. MAKE RELIEF CUTS AS NECESSARY IN THE PREPRUFE FLAP, ENSURING ANY RELIEF CUTS ARE A MIN. OF 1 in, 25 mm FROM THE FOLD, ALL RELIEF CUTS MUST BE SEALED WITH LM EXTENDING PAST THE CUT 3 in, 75 mm IN ALL DIRECTIONS
F. INSTALL TERMINATION BAR SEALED WITH LM AND ADD SAND BAGS AS BALLAST ONTO THE PREPRUFE FLAP, ONCE THE LM HAS FULLY CURED, REMOVE BALLAST
G. SEE DRAWING SIL-0504201-1 FOR ADDITIONAL DETAILING INSTRUCTIONS

gcp applied technologies

PREPRUFE® WATERPROOFING SYSTEM TIE-IN TO SILCOR® (INACESSABLE -2 of 2)

PRIOR REVIEW AND APPROVAL REQUIRED

Drawing: SIL-05042017-2
Scale: Not to Scale
Effective Date: 05/04/2017
Supersedes: NEW