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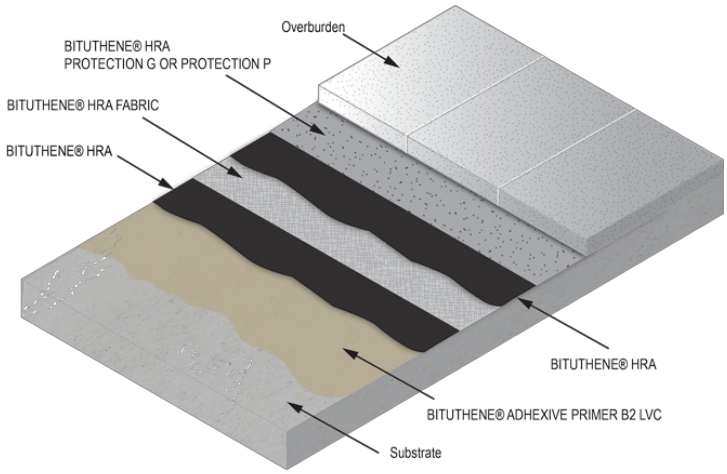
BITUTHENE® HRA Data Sheet

Hot Rubberized Asphalt Membrane for Bituminous Waterproofing Systems

Product Description

BITUTHENE® HRA is a single component, hot-applied rubberized asphalt for use on horizontal decks, planters, roofs, and other applications requiring a robust monolithic waterproofing system. It is composed of premium asphalt, synthetic rubbers, and stabilizing fillers. This blend of materials produces a compound that is very resilient, durable, and displays excellent adhesive properties.

For other HRA system products see the individual product data sheets.



Product Advantages

- Robust polyester reinforced 215 mil (5.5 mm) waterproofing system
- Meets or exceeds CAN/CGSB-37.50
- Compatible with a variety of substrates
- Fully adhered, seamless, and monolithic.
- Accommodates construction schedules - can be installed at temperatures as low as 0°F (-18°C), provided surface is clean, dry, free of ice, snow, and frost. Refer to GCP cold weather application guideline.
- Contains 100% solids
- Minimum 5% recycled content
- Use under pavers, concrete slabs, green and other overburden systems

System Components

BITUTHENE® HRA – Hot Rubber Membrane
BITUTHENE® HRA FABRIC– Polyester Reinforcement
BITUTHENE® HRA NEOPRENE 12" x 100' – Neoprene for Flashing
BITUTHENE® HRA NEOPRENE 6" x 100' – Neoprene for Flashing
BITUTHENE® HRA PROTECTION G – Fiberglass Protection Sheet
BITUTHENE® HRA PROTECTION P – Polyester Protection Sheet
BITUTHENE® ADHESIVE PRIMER B2 LVC - Primer
BITUTHENE® HRA CAP – Cap Sheet for Wall Flashing

Packaging

BITUTHENE® HRA is supplied in 30-pound wrapped blocks which are packaged in recyclable cardboard boxes. The product and wrapping is added directly into the melter without the cardboard

Safety & Handling

BITUTHENE® products must be handled properly. Do not handle until all safety precautions and instructions have been read and understood. Refer to product label and SDS before use. SDSs can be obtained from www.gcpat.com or by contacting your local representative.

Since these products are heated to elevated temperatures, it is essential that operations be conducted safely. All personnel need to be aware of the hazards of using hot-applied materials and safety precautions. All workers should use the required Personal Protective Equipment (PPE) when working with BITUTHENE HRA. Wear safety glasses with side shields (or goggles), wear appropriate chemical resistant gloves and clothing. When handling hot material, use heat resistant gloves. Use of an impervious apron is recommended. In case of insufficient ventilation, wear suitable respiratory equipment.

If hot product gets into eyes, flush the eye with water for 15 minutes and see a physician immediately. For burns from molten product, immediately submerse the affected area in water (the cooler the better) to cool as quickly as possible. Do not use solvents to remove the product and do not peel solidified product from skin. Remove product using mineral oil, soap, and water. For severe burns, seek immediate medical attention. If inhaled, remove person from the source and assist breathing if necessary. Seek medical attention if breathing is stopped or affected. If ingested, induce vomiting.

STORAGE

BITUTHENE HRA should be stored off the ground on a dry level surface with good drainage and completely protected with a weather-resistant covering. If this covering is damaged boxes may get wet, lose strength, and crush. If using pallets for storage, do not double stack as crushing of bottom boxes may occur. Product properties are not affected by packaging deterioration. BITUTHENE HRA has a shelf life of 1 year.

Weather:
Installation of BITUTHENE HRA waterproofing system shall be undertaken only when precipitation has not occurred during the previous 48 hours and is not imminent. Recommended ambient and substrate surface temperature is 40°F (5°C) and rising, can be installed at temperatures as low as 0°F (-18°C), provided surface is clean, dry, free of ice, snow, and frost. Refer to GCP cold weather application guideline. BITUTHENE HRA is not intended to be applied on lightweight insulating concrete. For installation on structural lightweight concrete consult GCP Technical.

Equipment:
Melter: Material is to be heated in a thermostatically controlled double jacketed melter that uses oil as a heat transfer medium and is equipped with a mechanically operated agitator. Melter must be equipped with two devices that monitor both asphalt and heating oil temperature with an accuracy of ±2°C. Temperature of the hot rubber must be 380°F - 400°F (193°C - 204°C). Do not use direct heat to melt BITUTHENE HRA. A separate job site inferred thermometer with an accuracy of ±2°C must be available to verify the material temperature coming from the melter and at the point of application.

Surface Preparation:
Substrates must be structurally clean, dry, sound, smooth, free of rust, paint, and laitance and meet or exceed minimum requirements of substrate manufacturer and local codes. New concrete shall be cured not less than 14 days depending on the curing rate of the concrete. The moisture condition of the concrete surface shall be 5% or less and sufficiently dry to prevent vaporization of moisture and blistering during application of the primer and membrane. The substrate surface should meet CSP 3-5 and have a light broom or wood float finish. If curing compounds are used or contaminants are in the concrete, shot blasting may be required to prepare the surface.

All defects in concrete surfaces, cracks, delamination, and spalled areas shall be repaired with a suitable patching material and cured to the patching manufacturer's specification. All protrusions, ridges, trowel marks and sharp edges shall be removed by grinding. Protrusions shall be blunt and not exceed 5 mm (200 mils) and depressions shall not exceed 10 mm (400 mils).

Priming:
Lightly spray or roll apply BITUTHENE® ADHESIVE PRIMER B2 LVC at a rate of 700-900 sft/gal. Allow primer to cure until dry. Do not use excess primer or let primer puddle. For details, please refer to BITUTHENE® ADHESIVE PRIMER B2 LVC data sheet.

Details:
Substrate detail work should be done prior to application of the waterproofing membrane per manufacturer's instruction.

Waterproofing of joints, cracks, segment joints and shear keys: Apply a coat of hot BITUTHENE HRA waterproofing membrane 118 mil (3 mm) thick and 8" (203.2 mm) wide on either side of joints, cracks, or shear keys. For all filled cracks, precast segment joints, and joints with gaps less than ¼" (6.4 mm), apply a 12" (305 mm) wide piece of BITUTHENE HRA FABRIC into the hot rubber. For cracks larger than ¼" (6.4 mm) apply a 12" (305 mm) wide piece of BITUTHENE HRA NEOPRENE into the hot rubber. Consult GCP Technical for use of expansion joints for larger cracks. Overlap ends of pieces by 4" (101.6 mm) making sure adequate hot rubber is between the laps.

Penetrations, base flashings, and other similar details can be installed per GCP's instructions before or in sequence with the primary waterproofing layer using BITUTHENE HRA FABRIC or BITUTHENE HRA NEOPRENE to reinforce the hot rubber or BITUTHENE HRA PROTECTION G as a base ply.

Application of Primary Waterproofing:

BITUTHENE HRA shall be continuously agitated until the material can be drawn free, flowing, and lump free from the melter at a temperature of 380°F-400°F (193°C-204°C). Lower temperatures may result in difficult to handle material and improper adhesion. Ensure hot rubber is fully bonded to the primed substrate.

To the primed substrate and all pre-installed detail work apply a monolithic base layer of BITUTHENE HRA at a minimum 90 mils (2.3mm) thick. Immediately embed BITUTHENE HRA FABRIC into this base layer while it is still hot, flowable, and tacky making sure to overlap the reinforcement by a minimum 2" (50.8 mm) and ensuring waterproofing is between the lap layers. Using the application squeegee or broom remove any trapped air from under the reinforcement. Apply a top layer of BITUTHENE HRA at 125 mils (3.2mm) to fully encapsulate the FABRIC within the hot rubber. While top layer is hot and tacky install a protection layer of BITUTHENE HRA PROTECTION G or BITUTHENE HRA PROTECTION P. Side laps to be 2" (50.8 mm) and end laps to be 4" (101.6 mm). If system is to be left indefinitely exposed install BITUTHENE HRA CAP in place of the protection sheet. The side laps of the cap sheet are to be 3" (76.2 mm) and end laps 6" (152.4 mm). Standard coverage rate for BITUTHENE HRA at a total of 215 mils is 1.4 lbs per 1 ft^2.

Typical Property Data

Test Description	Test Method	Values
Application Temperature, F	CGSB 37.50-M89	380° - 400°F (193° - 204°C)
Flow, mm @ 140°F	CGSB 37.50-M89, ASTM D5329	0
Softening point °C	ASTM D36	98°C (209°F) Min
Adhesion rating	CGSB 37.50-M89	pass
Cone penetration, 77°F	CGSB 37.50-M89, ASTM D5329	81
Cone penetration, 122°F	CGSB 37.50-M89, ASTM D5329	145
Toughness, joule	CGSB 37.50-M89	19.4
Toughness ratio	CGSB 37.50-M89	.052
Adhesion rating	CGSB 37.50-M89	pass
Water vapor permeance, perms (ng/Pa.m2.s)	CGSB 37.50-M89, ASTM E96-E	1

Water absorption, g	CGSB 37.50-M89	0.13 gain
Water resistance (pinhole, delamination, blistering, etc.)	CGSB 37.50-M89	pass
Low temperature flexibility, -25°C (-13°F)	CGSB 37.50-M89	pass
Crack bridging, -25°C (-13°F)	CGSB 37.50-M89	pass
Heat stability, 5hrs	CGSB 37.50-M89	pass
Viscosity at application temperature	CGSB 37.50-M89	4
Bond to concrete, 0F	ASTM D5329	Pass
Resilience	ASTM D5329	30%
Hydrostatic pressure resistance, psi	ASTM D751-A1	119
Hydrostatic pressure resistance, 100 psi	ASTM D5385	100
Flash point, C.O.C., F	CGSB 37.50-M89, ASTM D92	>500°F
Recycled Content		5% Minimum

*NOTE: Published results are nominal production values confirmed by independent laboratory testing.

TECHNICAL ASSISTANCE & SERVICES

GCP provides technical assistance in the product selection, specification, and application guidelines for all GCP HRA systems. Field representatives are available for consultation in each region.

For more information, contact GCP Technical Services

We hope the information here will be helpful. It is based on data and knowledge considered to be true and accurate, and is offered for consideration, investigation and verification by the user, but we do not warrant the results to be obtained. Please read all statements, recommendations, and suggestions in conjunction with our conditions of sale, which apply to all goods supplied by us. No statement, recommendation, or suggestion is intended for any use that would infringe any patent, copyright, or other third party right.

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Last Updated: 2025-06-06
gcpat.com/solutions/products/bituthene-hra-waterproofing-system/bituthene-hra-data-sheet

BITUTHENE® HRA CAP Data Sheet

SBS Modified Bitumen Cap Membrane with Mineral Surface for Use in Waterproofing Systems

Product Description

BITUTHENE® HRA CAP is a polyester reinforced SBS membrane designed for use as the top ply on wall and base flashings for hot rubberized asphalt waterproofing systems. It may also be used as the top surfacing in the field if a hot rubberized asphalt system is to be left exposed.

For other HRA system products see the individual product data sheets

Product Details

BITUTHENE HRA CAP is manufactured on state-of-the-art, dedicated lines that were exclusively designed to produce modified bitumen products. BITUTHENE HRA CAP is constructed with a high-performance, stress-resistant polyester mat that is impregnated and coated with a superior SBS-modified bitumen compound. It is surfaced with either white or black ceramic granules on the top side which protects the membrane from abuse and UV degradation.

Roll Dimensions	39⅜" X 32'10"
Nominal Coverage	One square
Approximate Weight	93 lbs. per roll
Top Surface	Mineral Granules (Black or White)
Back Surface	Fine sand release agent
Applicable Standards	Meets ASTM D6164, Grade G, Type I.

System Components

BITUTHENE® HRA – Hot Rubber Membrane
BITUTHENE® HRA FABRIC– Polyester Reinforcement
BITUTHENE® HRA NEOPRENE 12" x 100' – Neoprene for Flashing
BITUTHENE® HRA NEOPRENE 6" x 100' – Neoprene for Flashing
BITUTHENE® HRA PROTECTION G – Fiberglass Protection Sheet
BITUTHENE® HRA PROTECTION P – Polyester Protection Sheet
BITUTHENE® ADHESIVE PRIMER B2 LVC - Primer
BITUTHENE® HRA CAP – Cap Sheet for Wall Flashing

Safety & Handling

BITUTHENE® products must be handled properly. Do not handle until all safety precautions and instructions have been read and understood. Refer to product label and SDS before use. SDSs can be obtained from www.gcpat.com or your local representative.

STORAGE & USE

Rolls should be stored upright off the ground and completely protected from the weather. Substrates must be structurally sound, dry, smooth, and meet or exceed minimum requirements of local codes and GCP. Do not attempt application if ice, snow, moisture, or dew are present or inclement weather is expected. Consult GCP or your local representative for additional specifications and precautions.

APPLICATION

BITUTHENE HRA CAP must be applied in accordance with GCP installation procedures. Ensure substrates to receive a BITUTHENE HRA CAP are smooth, dry, and clean. The following information is intended for general information purposes only and is not all-inclusive.

For flashing applications using BITUTHENE HRA PROTECTION G as the base membrane, install it in accordance with manufactures requirements. Over the BITUTHENE HRA PROTECTION G, install one ply of BITUTHENE HRA CAP lapping it 3" (76.2 mm) on sides and extending membrane a minimum of 6" (152.4 mm) into the field and at least 2" (50.8 mm) past base membrane. Apply base and cap membranes in such a manner as to provide and maintain a minimum 6" (152.4 mm) offset between side and end laps of of each sheet. BITUTHENE HRA CAP side and end laps must be fully adhered in a complete mopping of hot rubberized asphalt with asphalt extending approximately ⅜" (9.4 mm) beyond lap edge.

BITUTHENE HRA CAP is also used as the top finishing membrane on hot rubberized asphalt flashings reinforced with neoprene or polyester without the need for a modified bitumen base membrane. Over the neoprene or polyester fabric reinforced base layer install one ply of BITUTHENE HRA CAP in a solid application of hot rubberized asphalt. Lap it 3" (76.2 mm) on sides and extend membrane a minimum of 6" (152.4 mm) into the field. Ensure asphalt extends approximately ⅜" (9.4 mm) beyond lap edges.

BITUTHENE HRA CAP can also be used in the field as a final surfacing or protection sheet. Membrane is to be lapped 3" (76.2 mm) on sides and 6" (152.4 mm) on the ends with end laps staggered not less than 3" (76.2 mm) apart.

Cold weather applications require special handling to prevent damage to the rolls and ensure satisfactory installation. Do not apply waterproofing systems over improperly prepared substrates or substrates that contain moisture. Rubberized asphalt temperature the melter must be 380°-400°F (193°-204°C) to ensure proper adhesion.

PHYSICAL PROPERTIES

Test Description	Test Method	Results*
Softening Point	ASTM D36	260°F
Tensile Strength	ASTM D5147 @ 73.4 +/- 3.6°F MD/XD @ 0 +/- 3.6°F MD/XD	90/65 lbs./in. 125/75 lbs./in.

Elongation	ASTM D5147 @ 73.4 +/- 3.6°F MD/XD @ 0 +/- 3.6°F MD/XD	60%/120% 35%/35%
Dimensional Stability	ASTM D5147 MD/XD	0.1%/0.1%
Low-Temperature Flex	ASTM D5147	Pass @ -20°F
Compound Stability	ASTM D5147	250°F
Thickness	ASTM D5147	3.7 mm (145 mils)
Tear Strength	ASTM D5147 @ 73.4 +/- 3.6°F MD/XD	135/100 lbs.

*NOTE: Published results are nominal production values confirmed by independent laboratory testing.

TECHNICAL ASSISTANCE & SERVICES

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For more information, contact GCP Technical Services

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Last Updated: 2025-05-30
gcpat.com/solutions/products/bituthene-hra-waterproofing-system/bituthene-hra-cap-data-sheet

BITUTHENE® HRA FABRIC Data Sheet

Polyester Reinforcement for Waterproofing Systems

Product Description

BITUTHENE® HRA FABRIC is a spunbonded polyester fabric valued for strength when used as the reinforcement in BITUTHENE HRA waterproofing systems. It has excellent properties which enhance the resilience to stresses on the waterproofing system.

For other HRA system products see the individual product data sheets

Product Advantages

- Excellent resistance to stress
- Good conformability on various surface profiles
- Superior tear and puncture resistance

System Components

BITUTHENE® HRA – Hot Rubber Membrane
BITUTHENE® HRA FABRIC– Polyester Reinforcement
BITUTHENE® HRA NEOPRENE 12" x 100' – Neoprene for Flashing
BITUTHENE® HRA NEOPRENE 6" x 100' – Neoprene for Flashing
BITUTHENE® HRA PROTECTION G – Fiberglass Protection Sheet
BITUTHENE® HRA PROTECTION P – Polyester Protection Sheet
BITUTHENE® ADHESIVE PRIMER B2 LVC - Primer
BITUTHENE® HRA CAP – Cap Sheet for Wall Flashing

Safety & Handling

BITUTHENE® products must be handled properly. Do not handle until all safety precautions and instructions have been read and understood. Refer to product label and SDS before use. SDSs can be obtained from www.gcpat.com or by contacting your local representative.

APPLICATION

BITUTHENE HRA FABRIC must be applied in accordance with GCP installation procedures. Do not attempt application if ice, snow, moisture, or dew are present or inclement weather is expected. The following information is intended for general information purposes only and is not all-inclusive.

Using a flat squeegee, install BITUTHENE HRA to the properly prepared and primed substrate at a minimum 90 mils (2.3 mm) thick. While hot and tacky place the BITUTHENE HRA FABRIC in the hot rubberized asphalt and work air pockets from under the reinforcement by using pressure from a broom or the application squeegee. BITUTHENE HRA will begin to saturate the fabric from below. Pour additional BITUTHENE HRA over the reinforcement and squeegee to a minimum 125 mils (3.2 mm) to fully encapsulate the BITUTHENE HRA FABRIC within the hot rubberized asphalt. Overlap fabric side laps a minimum of 2 inches (50.8 mm) and end laps a minimum of 4" (101.6 mm). Ensure overlaps are secured tightly with hot rubberized asphalt.

Cold weather applications require special handling to prevent damage to the rolls and ensure satisfactory installation. Do not apply waterproofing systems over improperly prepared substrates or substrates that contain moisture. Rubberized asphalt temperature in the melter must be 380°-400°F (193°-204°C) to ensure proper adhesion.

PHYSICAL PROPERTIES

Property	Test Method	Results*
Width		3 ft (.91 m)
Length		750 ft (228.6 m)
Coverage		2250 sq ft (209 sq m)
Color		White
Unit Weight (oz/sq yd)	ASTM D3776-96	1.35
Thickness (mil / mm)	ASTM D1777-96	9.7 mil (0.25 mm)
Sheet Grab Tensile (MD)	ASTM D4632-96	29 lb
Sheet Trapezoid Tear (MD)	ASTM D1117-98	5.9 lb

TECHNICAL ASSISTANCE & SERVICES

GCP provides technical assistance in the product selection, specification, and application guidelines for all GCP HRA systems. Field representatives are available for consultation in each region.

For more information, contact GCP Technical Services at 800-396-8134 x2

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Last Updated: 2025-05-30
gcpat.com/solutions/products/bituthene-hra-waterproofing-system/bituthene-hra-fabric-data-sheet

BITUTHENE® HRA NEOPRENE Data Sheet

Uncured neoprene rubber membrane for use in bituminous waterproofing systems

Product Description

BITUTHENE®HRA NEOPRENE is an uncured neoprene rubber membrane designed to reinforce wall, base flashings, expansion joints and other details in hot rubberized asphalt waterproofing systems.

For other HRA system products see the individual product data sheets

Product Details

BITUTHENE HRA NEOPRENE is a thermoset neoprene rubber membrane used in conjunction with BITUTHENE HRA. BITUTHENE HRA NEOPRENE is an uncured sheet material that is easy to mold around penetrations and can be used to detail flashings, drains, transitions, irregular shapes, and expansion joints. It has excellent tensile and elongation strength and can easily withstand thermal expansion and contraction. BITUTHENE HRA NEOPRENE is typically placed within BITUTHENE HRA but can be used as a protection course in certain approved exposed conditions.

Roll Dimensions	6" x 100' 12" x 100'
Standard Thickness	60 mils (1.5mm)
Approximate Weight	6" / 20lb, 12" / 40lb
Shelf life	maximum 9 months from the date of manufacturing

System Components

BITUTHENE®HRA – Hot Rubber Membrane
BITUTHENE®HRA FABRIC– Polyester Reinforcement
BITUTHENE®HRA NEOPRENE 12" x 100' – Neoprene for Flashing
BITUTHENE®HRA NEOPRENE 6" x 100' – Neoprene for Flashing
BITUTHENE®HRA PROTECTION G – Fiberglass Protection Sheet
BITUTHENE®HRA PROTECTION P – Polyester Protection Sheet
BITUTHENE®ADHESIVE PRIMER B2 LVC - Primer
BITUTHENE®HRA CAP – Cap Sheet for Wall Flashing
For other BITUTHENE HRA products details, see the individual product data sheet.

Safety & Handling

BITUTHENE®products must be handled properly. Do not handle until all safety precautions and instructions have been read and understood. Refer to product label and SDS before use. SDSs can be obtained from www.gcpat.com or by contacting your local representative.

STORAGE & USE

Rolls should be stored upright off the ground and completely protected from the weather. Do not attempt application if ice, snow, moisture, or dew are present or inclement weather is expected. Do not use material that is 9 months old or has become inflexible and hard to mold.

APPLICATION

Remove green protective film from top of BITUTHENE HRA NEOPRENE prior to application of membrane. Apply BITUTHENE HRA at 90 mils (2.3 mm) and while hot install the BITUTHENE HRA NEOPRENE. Mold to shape as needed to flash transitions. A minimum 2" (50.8 mm) overlap is required between sections of neoprene. BITUTHENE HRA must be applied between membrane overlaps to completely seal the joints. Cover the neoprene with additional BITUTHENE HRA at about 125 mils (3.2 mm) to fully encapsulate it within the hot rubber.

Cold weather applications require special handling to prevent damage to the rolls and ensure satisfactory installation. Do not apply waterproofing systems over improperly prepared substrates or substrates that contain moisture. Rubberized asphalt temperature in the melter must be 380°-400°F (193°-204°C) to ensure proper adhesion.

Typical PROPERTIES after vulcanization

Test Description	Test Method	Results*
Tensile Strength	D412 Die C	1484 PSI
Elongation	D412 Die C	267%

Tear Resistance	D412 Die C	171 Lb./in
Brittleness Point @ - 40°F	D2137	Does not Break
Ozone Resistance		No Cracks @ 7 X
168 Hrs./100pphm/104°F/50% Ext.	D1149	Magnification
Water Absorption, Max. Mass 166 Hrs. @ 158°F	D471	8.50%

TECHNICAL ASSISTANCE & SERVICES

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Last Updated: 2025-05-30
gcpat.com/solutions/products/bituthene-hra-waterproofing-system/bituthene-hra-neoprene-data-sheet

BITUTHENE® HRA PROTECTION G Data Sheet

SBS-Modified Protection Sheet Reinforced with Fiberglass for Waterproofing Systems

Product Description

BITUTHENE® HRA PROTECTION G is a SBS modified membrane reinforced with a tough glass fabric for use as the top protection layer on hot rubberized asphalt waterproofing systems. It protects the underlying system from moderate abuse due to construction foot traffic and overburden. Additionally, this membrane may be used as the base ply in vertical two ply flashings.

For other HRA system products see the individual product data sheets

Product Details

BITUTHENE HRA PROTECTION G is manufactured on a strong fiberglass reinforced mat that receives a heavy coating of superior SBS-modified bitumen compound. It is manufactured on state-of-the-art, dedicated lines that were exclusively designed to produce modified bitumen products.

Roll Dimensions	39⅜" X 49' 6"
Nominal Coverage	150 sf/roll
Approximate Weight	88 lbs. per roll
Top Surface	Fine sand release agent
Back Surface	Fine sand release agent
Applicable Standards	Meets ASTM D6163 Grade S, Type I

System Components

BITUTHENE® HRA – Hot Rubber Membrane
BITUTHENE® HRA FABRIC– Polyester Reinforcement
BITUTHENE® HRA NEOPRENE 12" x 100' – Neoprene for Flashing
BITUTHENE® HRA NEOPRENE 6" x 100' – Neoprene for Flashing
BITUTHENE® HRA PROTECTION G – Fiberglass Protection Sheet
BITUTHENE® HRA PROTECTION P – Polyester Protection Sheet
BITUTHENE® ADHESIVE PRIMER B2 LVC
BITUTHENE® HRA CAP – Cap Sheet for Wall Flashing

Safety & Handling

BITUTHENE® products must be handled properly. Do not handle until all safety precautions and instructions have been read and understood. Refer to product label and SDS before use. SDSs can be obtained from www.gcpat.com or by contacting your local representative.

STORAGE & USE

Rolls should be stored upright off the ground and completely protected from the weather. Substrates must be structurally sound, dry, smooth, and meet or exceed minimum requirements of local codes and GCP. Do not attempt application if ice, snow, moisture, or dew are present or inclement weather is expected.

APPLICATION

BITUTHENE HRA PROTECTION G must be applied in accordance with GCP installation procedures. The following information is intended for general information purposes only and is not all-inclusive.

When used as a protection layer, BITUTHENE HRA PROTECTION G is installed in a shingle pattern to promote drainage. Install membrane while the BITUTHENE HRA is hot and has a tacky consistency. Overlap protection course side laps a minimum of 2" (50.8 mm) and end laps a minimum of 4" (101.6 mm).

When used as a base membrane in vertical flashing applications, substrates to receive the membrane must be firmly attached, smooth, dry, clean, and free of sharp projections and depressions. Substrates requiring priming must be primed with BITUTHENE® ADHESIVE PRIMER B2 LVC and allowed to dry. Install BITUTHENE HRA PROTECTION G in a solid mopping of hot rubberized asphalt with 3" (76.2 mm) side side laps and membrane extending a minimum of 4" (101.6 mm) into the field.

Cold weather applications require special handling to prevent damage to the rolls and ensure satisfactory installation. Do not apply waterproofing systems over improperly prepared substrates or substrates that contain moisture. Rubberized asphalt temperature in the melter must be 380°-400°F (193°-204°C) to ensure proper adhesion.

PHYSICAL PROPERTIES

Test Description	Test Method	Results*
Softening Point	ASTM D36	260°F
Tensile Strength	ASTM D5147 @ 73.4 +/- 3.6°F MD/XD @ 0 +/- 3.6°F MD/XD	60/60 lbs./in. 135/125 lbs./in.
Elongation	ASTM D5147 @ 73.4 +/- 3.6°F MD/XD @ 0 +/- 3.6°F MD/XD	4%/4% 4%/4%

Dimensional Stability	ASTM D5147 MD/XD	0.1%/0.1% MAX
Low-Temperature Flex	ASTM D5147	Pass @ -20°F
Compound Stability	ASTM D5147	250°F
Thickness	ASTM D5147	2.3 mm (91 mils)
Tear Strength	ASTM D5147 @ 73.4 +/- 3.6°F MD/XD	115/120 lbs

*NOTE: Published results are nominal production values confirmed by independent laboratory testing.

TECHNICAL ASSISTANCE & SERVICES

GCP provides technical assistance in the product selection, specification and application guidelines for all GCP HRA systems. Field representatives are available for consultation in each region.
For more information, contact GCP Technical Services.

We hope the information here will be helpful. It is based on data and knowledge considered to be true and accurate, and is offered for consideration, investigation and verification by the user, but we do not warrant the results to be obtained. Please read all statements, recommendations, and suggestions in conjunction with our conditions of sale, which apply to all goods supplied by us. No statement, recommendation, or suggestion is intended for any use that would infringe any patent, copyright, or other third party right.

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Last Updated: 2025-05-30
gcpat.com/solutions/products/bituthene-hra-waterproofing-system/bituthene-hra-protection-g-data-sheet

BITUTHENE® HRA PROTECTION P Data Sheet

SBS-Modified Protection Sheet Reinforced with Polyester for Waterproofing Systems

Product Description

BITUTHENE® HRA PROTECTION P is a SBS modified membrane reinforced with a stress-resistant polyester fabric for use as the top protection layer on hot rubberized asphalt waterproofing systems. It protects the underlying system from moderate abuse due to construction foot traffic and overburden.

For other HRA system products see the individual product data sheets

Product Details

BITUTHENE HRA PROTECTION P is manufactured on a high performance, stress-resistant polyester mat that is impregnated and coated with a superior SBS-modified bitumen compound and is lightly surfaced with a mineral release agent. The polyester mat provides excellent strength, tear, and puncture resistance.

Roll Dimensions	39⅜" X 64' 3"
Nominal Coverage	200 sf/roll
Approximate Weight	89 lbs. per roll
Top Surface	Fine sand release agent
Back Surface	Fine sand release agent
Applicable Standards	Meets ASTM D4601, Type II

System Components

BITUTHENE® HRA – Hot Rubber Membrane
BITUTHENE® HRA FABRIC– Polyester Reinforcement
BITUTHENE® HRA NEOPRENE 12" x 100' – Neoprene for Flashing
BITUTHENE® HRA NEOPRENE 6" x 100' – Neoprene for Flashing
BITUTHENE® HRA PROTECTION G – Fiberglass Protection Sheet
BITUTHENE® HRA PROTECTION P – Polyester Protection Sheet
BITUTHENE® ADHESIVE PRIMER B2 LVC - Primer
BITUTHENE® HRA CAP – Cap Sheet for Wall Flashing

Safety & Handling

BITUTHENE® products must be handled properly. Do not handle until all safety precautions and instructions have been read and understood. Refer to product label and SDS before use. SDSs can be obtained from www.gcpat.com or by contacting your local representative.

STORAGE & USE

Rolls should be stored upright off the ground and completely protected from the weather. Substrates must be structurally sound, dry, smooth, and meet or exceed minimum requirements of local codes and GCP. Do not attempt application if ice, snow, moisture, or dew are present or inclement weather is expected.

APPLICATION

BITUTHENE HRA PROTECTION P must be applied in accordance with GCP installation procedures. The following information is intended for general information purposes only and is not all-inclusive.

BITUTHENE HRA PROTECTION P is installed in a shingle pattern to promote drainage. Install membrane while the BITUTHENE HRA is hot and has a tacky consistency. Overlap protection course side laps a minimum of 2" (50.8 mm) and end laps a minimum 4" (101.6 mm).

Cold weather applications require special handling to prevent damage to the rolls and ensure satisfactory installation. Do not apply waterproofing systems over improperly prepared substrates or substrates that contain moisture. Rubberized asphalt temperature in the melter must be 380°-400°F (193°-204°C) to ensure proper adhesion.

PHYSICAL PROPERTIES

Test Description	Test Method	Results*
Thickness	ASTM D5147	2.0 mm (79 mils)
Tensile Strength	ASTM D5147 MD/XD	85/60 lbs./in.
Elongation	ASTM D5147 MD/XD	45%/60%
Tear Strength	ASTM D5147 MD/XD	125/85 lbs.

*NOTE: Published results are nominal production values confirmed by independent laboratory testing.

TECHNICAL ASSISTANCE & SERVICES

GCP provides technical assistance in the product selection, specification and application guidelines for all GCP HRA systems. Field representatives are available for consultation in each region.
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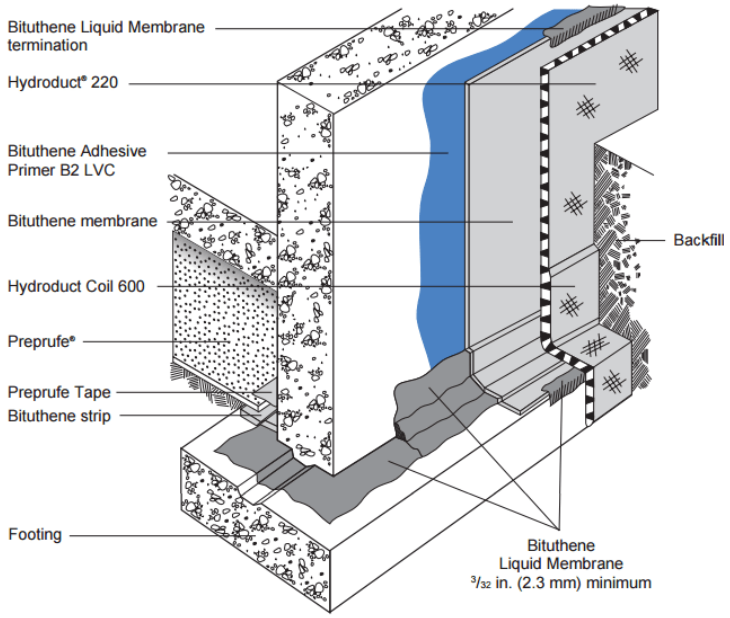
Last Updated: 2025-05-30

BITUTHENE® Adhesive Primer B2 LVC Data Sheet

Specially formulated low VOC primer for use with GCP self-adhered membranes on green concrete or damp substrates

Product Description

BITUTHENE® Adhesive Primer B2 LVC is a low VOC primer in solvent specially formulated to provide good initial adhesion of GCP self-adhered membranes. In addition, its formulation promotes the adhesion of GCP self-adhered membranes to green concrete and damp surfaces. The VOC (Volatile Organic Compound) content is <200 g/L and is compliant with all state and local VOC requirements for adhesives and sealants. Architectural and industrial maintenance regulations limit the VOC content in products classified as adhesive primers. Refer to technical letters at gcpat.com for the most current list of allowable limits.



Use

BITUTHENE® Adhesive Primer B2 LVC is used to prime green concrete (less than seven day cure for normal structural concrete). It is also used to prime damp concrete, masonry, gypsum sheathing or wood surfaces on which GCP self-adhered membranes will be applied.

BITUTHENE® Adhesive Primer B2 LVC is used for vertical and horizontal applications at 25 ºF (-4 ºC) or above.

Application Procedures

Safety, Storage and Handling Information

GCP 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 andenvironmental considerations has been gathered. SDS (Safety Data Sheet) are available at gcpat.com and users should acquaint themselves with this information. Carefully read detailed precaution statements on product labels and the SDS before use.

Supply

BITUTHENE® PRIMER B2 PROPERTY	VALUE
Unit Size	5 gal (18.9 L) pail
Weight	44 lbs (20 kg)/pail
Units per pallet	48 pails
Coverage	325–425 ft^2/gal (7.5–10.0 m^2/L)

BITUTHENE® Adhesive Primer B2 LVC is subject to a 18 months standard shelf life provided it is stored as per GCP recommendation.

Product Application

BITUTHENE® Adhesive Primer B2 LVC may be applied by roller or brush. Use a heavy nap roller made of natural material, such as lamb's wool.

Stir until a uniform color and consistency is achieved.

Apply it to clean, dirt free, frost-free surfaces at an approximate coverage rate of 325–425 ft^2/gal (7.5–10.0 m^2/L). Do not apply to frozen concrete or to areas with standing or visible water. Do not use during wet weather. Allow BITUTHENE® Adhesive Primer B2 LVC to dry one hour or until tack-free. Dry time may be longer in cold temperatures Deep puddles of primer should be avoided as this will lengthen drying time. Rollers or brushes should be dipped into pans. Avoid pouring primer directly onto a horizontal substrate. Do not apply directly to GCP self-adhered membrane.

In general, priming should be limited to an area that can be covered with membrane within 24 hours. Areas that accumulate significant amounts of dust or dirt must be reprimed before membrane is applied.

Although it may be used on green concrete and damp surfaces, moisture may become trapped under the membrane. This may result in blistering, particularly on warm, sunny days. Therefore, cover the membrane as soon as possible to minimize blistering. If blistering occurs, allow membrane to cool and re-roll with heavy roller. Blisters over 4 in. (100 mm) in diameter should be cut and patched.

Clean tools with mineral spirits at the end of each day. 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.

We hope the information here will be helpful. It is based on data and knowledge considered to be true and accurate, and is offered for consideration, investigation and verification by the user, but we do not warrant the results to be obtained. Please read all statements, recommendations, and suggestions in conjunction with our conditions of sale, which apply to all goods supplied by us. No statement, recommendation, or suggestion is intended for any use that would infringe any patent, copyright, or other third party right.

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Last Updated: 2025-05-13
gcpat.com/solutions/products/bituthene-post-applied-waterproofing/bituthene-adhesive-primer-b2-lvc

SAFETY DATA SHEET

1. Identification

Product identifier **Bituthene HRA**

Other means of identification

Synonyms Hot Applied Waterproofing Membrane

Recommended use Hot applied waterproofing for buried application

Recommended restrictions No other uses are advised.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name GCP

Address 20 Moores Rd.
Malvern, PA 19355
United States

Telephone +1 866-333-3726

Website www.gcpat.com

E-mail Not available.

Emergency phone number 3E Global Incident Hotline
1 760 476 3962
1 866 519 4752 (Toll Free)
Access Code: 336250

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Not classified.

Environmental hazards Not classified.

OSHA defined hazards Not classified.

Label elements

Hazard symbol None.

Signal word None.

Hazard statement The product does not meet the criteria for classification.

Precautionary statement

Prevention Observe good industrial hygiene practices.

Response Take off contaminated clothing and wash it before reuse.

Storage Store away from incompatible materials.

Disposal Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise classified (HNOC) None known.

Supplemental information None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Asphalt		8052-42-4	40 - 70
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTHENIC		64742-52-5	0 - 25

Composition comments	The exact concentrations of the above listed chemicals are being withheld as a trade secret. All concentrations are in percent by weight. Non-classification as a carcinogen is based on the non-respirable form of the product.

4. First-aid measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporary irritation.
Indication of immediate medical attention and special treatment needed	Treat symptomatically.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media	Foam. Dry powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Stop the flow of material, if this is without risk. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling	Avoid prolonged exposure. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

US. OSHA Table Z-1 Permissible Exposure Limits (PEL) for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value	Form
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTHENIC (CAS 64742-52-5)	PEL	5 mg/m3	Mist.
		2000 mg/m3	
		500 ppm	

US. ACGIH Threshold Limit Values (TLV)

Components	Type	Value	Form
Asphalt (CAS 8052-42-4)	TWA	0.5 mg/m3	Inhalable fume.
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTHENIC (CAS 64742-52-5)	TWA	5 mg/m3	Inhalable fraction.

NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended

Components	Type	Value
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTHENIC (CAS 64742-52-5)	IDLH	2500 mg/m3

US. NIOSH: Pocket Guide to Chemical Hazards Recommended Exposure Limits (REL)

Components	Type	Value	Form
Asphalt (CAS 8052-42-4)	Ceiling	5 mg/m3	Fume.
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTHENIC (CAS 64742-52-5)	Ceiling	1800 mg/m3	
	STEL	10 mg/m3	Mist.

Biological limit values

ACGIH Biological Exposure Indices (BEI)

Components	Value	Determinant	Specimen	Sampling Time
Asphalt (CAS 8052-42-4)	2.5 µg/l	1-Hydroxypyrene, with hydrolysis (1-HP)	Urine	*

* - For sampling details, please see the source document.

Appropriate engineering controls Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection Wear appropriate chemical resistant gloves. When handling hot material, use heat resistant gloves.

Other Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance

Physical state Solid.

Form Solid.

Color Dark brown. Black.

Odor	Burnt Tar.
Odor threshold	Not available.
pH	Not available.
Melting point/freezing point	150 - 250 °F (65.56 - 121.11 °C) ASTM D36 Softening Point
Initial boiling point and boiling range	>800 °F (>426.67 °C)
Flash point	>400.0 °F (>204.4 °C)
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.

Upper/lower flammability or explosive limits

Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.

Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.

Solubility(ies)

Solubility (water)	Not available.

Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	>700 °F (>371.11 °C)
Decomposition temperature	Not available.
Viscosity	Not available.

Other information

Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
Percent volatile	0 %
Specific gravity	1 - 1.9

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Prolonged inhalation may be harmful.
Skin contact	No adverse effects due to skin contact are expected. Thermal burn hazard - contact with hot material may cause thermal burns.
Eye contact	Direct contact with eyes may cause temporary irritation.
Ingestion	Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics	Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Acute toxicity	Not known.

Components	Species	Test Results
Asphalt (CAS 8052-42-4)		
Acute		
Dermal		
LD50	Rabbit	> 2000 mg/kg
Oral		
LD50	Rat	> 5000 mg/kg

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye irritation Due to partial or complete lack of data the classification is not possible.

Respiratory or skin sensitization

Respiratory sensitization Due to partial or complete lack of data the classification is not possible.

Skin sensitization Due to partial or complete lack of data the classification is not possible.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity Reference to chemical component(s) listed are based on unbound respirable particles and are not generally applicable to product as supplied.

IARC Monographs. Overall Evaluation of Carcinogenicity

Asphalt (CAS 8052-42-4)	2B Possibly carcinogenic to humans.
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTHENIC (CAS 64742-52-5)	3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

US. National Toxicology Program (NTP) Report on Carcinogens

Asphalt (CAS 8052-42-4)	Known To Be Human Carcinogen.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity - single exposure Due to partial or complete lack of data the classification is not possible.

Specific target organ toxicity - repeated exposure Due to partial or complete lack of data the classification is not possible.

Aspiration hazard Due to partial or complete lack of data the classification is not possible.

Chronic effects Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

Further information This product has no known adverse effect on human health.

12. Ecological information

Ecotoxicity The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Persistence and degradability No data is available on the degradability of any ingredients in the mixture.

Bioaccumulative potential No data available.

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues / unused products Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

15. Regulatory information

US federal regulations This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Toxic Substances Control Act (TSCA) All components of the mixture on the TSCA 8(b) inventory are designated “active”.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical No

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Asphalt (CAS 8052-42-4)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA) Not regulated.

US state regulations

California Proposition 65

WARNING: This product can expose you to Asphalt, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

California Proposition 65 - CRT: Listed date/Carcinogenic substance

Asphalt (CAS 8052-42-4) Listed: January 1, 1990

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	Yes
Canada	Domestic Substances List (DSL)	Yes

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date 05-12-2025

Version # 01

Disclaimer GCP cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.

SAFETY DATA SHEET

1. Identification

Product identifier **Bituthene HRA Cap Black & Cap White**

Other means of identification

Product Identifier ARTICLE

Synonyms Flintlastic GMS (Black) * Flintlastic GMS (White)

Recommended use Asphalt membrane used for waterproofing

Recommended restrictions No other uses are advised.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name GCP

Address 20 Moores Rd.
Malvern, PA 19355
United States

Telephone +1 866-333-3726

Website www.gcpat.com

E-mail Not available.

Emergency phone number 3E Global Incident Hotline
1 760 476 3962
1 866 519 4752 (Toll Free)
Access Code: 336250

2. Hazard(s) identification

This product is considered as an Article as outlined in OSHA's Hazardous Communication Standard (29 CFR 1910.1200), and thus is not required to have a Safety Data Sheet (SDS). This SDS is prepared and offered for information only. OSHA's HCS definition of "Article" means "a manufactured item other than a fluid or particle: (i) which is formed to a specific shape or design during manufacture; (ii) which has end use function(s) dependent in whole or in part upon its shape or design during end use; and (iii) which under normal conditions of use does not release more than very small quantities, e.g., minute or trace amounts of a hazardous chemical (as determined under paragraph (d) of this section), and does not pose a physical hazard or health risk to employees." 29 CFR 1910.1200(c).

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Waterproofing flashing cap sheet		NA	100

This product is an article.

4. First-aid measures

This product is an article and is not expected to release hazardous chemicals under normal conditions of use.

5. Fire-fighting measures

Suitable extinguishing media Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing media Not available.

Specific hazards arising from the chemical Not applicable.

Special protective equipment and precautions for firefighters Not available.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Not available.

Methods and materials for containment and cleaning up	Not available.
Environmental precautions	Not available.

7. Handling and storage

Precautions for safe handling	Not available.
Conditions for safe storage, including any incompatibilities	Not available.

8. Exposure controls/personal protection

This product is considered to be an article which does not release or otherwise result in exposure to a hazardous chemical under normal use conditions. No engineering controls or personal protective equipment (PPE) are necessary.

9. Physical and chemical properties

Appearance	
Physical state	Solid.
Form	Sheets.
Color	Black. and White.
Odor	Odorless.
Odor threshold	Not available.
pH	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Insoluble.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Not available.
Possibility of hazardous reactions	Not available.
Conditions to avoid	Not available.
Incompatible materials	Not available.

Hazardous decomposition products	Not available.

11. Toxicological information

This product, when used under reasonable conditions and in accordance with the directions for use, should not present a health hazard. However, use or processing of the product in a manner not in accordance with the product's directions for use may affect the performance of the product and may present potential health and safety hazards

12. Ecological information

This article is expected to present a low environmental risk either because use and disposal are unlikely to result in a significant release of components to the environment or because those components that may be released are expected to have insignificant environmental impact.

13. Disposal considerations

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

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.

15. Regulatory information

This product is an article as defined by TSCA regulations, and is exempt from TSCA Inventory requirements.

16. Other information, including date of preparation or last revision

Issue date	05-12-2025
Version #	01
Disclaimer	GCP cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.

SAFETY DATA SHEET

1. Identification

Product identifier **Bituthene HRA Fabric**

Other means of identification

Product Identifier ARTICLE

Synonyms Ultraseal Reinforcing Fabric.

Recommended use Reinforcement of HRA waterproofing membrane.

Recommended restrictions No other uses are advised.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name GCP

Address 20 Moores Rd.
Malvern, PA 19355
United States

Telephone +1 866-333-3726

Website www.gcpat.com

E-mail Not available.

Emergency phone number 3E Global Incident Hotline
1 760 476 3962
1 866 519 4752 (Toll Free)
Access Code: 336250

2. Hazard(s) identification

This product is considered as an Article as outlined in OSHA's Hazardous Communication Standard (29 CFR 1910.1200), and thus is not required to have a Safety Data Sheet (SDS). This SDS is prepared and offered for information only. OSHA's HCS definition of "Article" means "a manufactured item other than a fluid or particle: (i) which is formed to a specific shape or design during manufacture; (ii) which has end use function(s) dependent in whole or in part upon its shape or design during end use; and (iii) which under normal conditions of use does not release more than very small quantities, e.g., minute or trace amounts of a hazardous chemical (as determined under paragraph (d) of this section), and does not pose a physical hazard or health risk to employees." 29 CFR 1910.1200(c).

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Poly(ethylene Terephthalate)		25038-59-9	80 - 90
Binder Resin		N/A	10 - 20
Optical Brightener		N/A	0 - 5
Siloxanes and Silicones, di-Me		63148-62-9	0 - 5

This product is an article.

4. First-aid measures

This product is an article and is not expected to release hazardous chemicals under normal conditions of use.

5. Fire-fighting measures

Suitable extinguishing media Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing media Not available.

Specific hazards arising from the chemical Not applicable.

Special protective equipment and precautions for firefighters Not available.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Not available.
Methods and materials for containment and cleaning up	Not available.
Environmental precautions	Not available.

7. Handling and storage

Precautions for safe handling	Not available.
Conditions for safe storage, including any incompatibilities	Not available.

8. Exposure controls/personal protection

This product is considered to be an article which does not release or otherwise result in exposure to a hazardous chemical under normal use conditions. No engineering controls or personal protective equipment (PPE) are necessary.

9. Physical and chemical properties

Appearance	
Physical state	Solid.
Form	Solid.
Color	White.
Odor	Odorless.
Odor threshold	Not available.
pH	Not available.
Melting point/freezing point	329 °F (165 °C)
Initial boiling point and boiling range	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Insoluble.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Not available.

Possibility of hazardous reactions	Not available.
Conditions to avoid	Not available.
Incompatible materials	Not available.
Hazardous decomposition products	Not available.

11. Toxicological information

This product, when used under reasonable conditions and in accordance with the directions for use, should not present a health hazard. However, use or processing of the product in a manner not in accordance with the product's directions for use may affect the performance of the product and may present potential health and safety hazards

12. Ecological information

This article is expected to present a low environmental risk either because use and disposal are unlikely to result in a significant release of components to the environment or because those components that may be released are expected to have insignificant environmental impact.

13. Disposal considerations

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

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.

15. Regulatory information

This product is an article as defined by TSCA regulations, and is exempt from TSCA Inventory requirements.

16. Other information, including date of preparation or last revision

Issue date	05-12-2025
Version #	01
Disclaimer	GCP cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.

SAFETY DATA SHEET

1. Identification

Product identifier **Bituthene HRA Neoprene**

Other means of identification

Synonyms Uncured Neoprene Flashing

Recommended use Waterproofing flashing

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name GCP

Address 20 Moores Rd.
Malvern, PA 19355
United States

Telephone +1 866-333-3726

Website www.gcpat.com

E-mail Not available.

Emergency phone number 3E Global Incident Hotline
1 760 476 3962
1 866 519 4752 (Toll Free)
Access Code: 336250

2. Hazard(s) identification

Physical hazards	Not classified.	
Health hazards	Sensitization, skin	Category 1
	Carcinogenicity	Category 1B
Environmental hazards	Not classified.	
OSHA defined hazards	Not classified.	

Label elements

Signal word Danger

Hazard statement May cause an allergic skin reaction. May cause cancer.

Precautionary statement

Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection.

Response If on skin: Wash with plenty of water. If exposed or concerned: Get medical advice/attention. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

Storage Store locked up.

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

Hazard(s) not otherwise classified (HNOC) None known.

Supplemental information Encapsulation in the rubber matrix generally precludes hazardous exposure. However, some vapors may be released during hot processing.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTHENIC		64742-52-5	10 - 30
1,3-Butadiene, homopolymer		9003-17-2	1 - 5
Aluminosilicate solid ceramic spheres		68131-74-8	1 - 5
Magnesium Oxide		1309-48-4	1 - 5
Zinc Oxide		1314-13-2	1 - 5
Rosin		8050-09-7	0.1 - 1
Tetramethylthiuram Monosulphide		97-74-5	0.1 - 1

Composition comments The exact concentrations of the above listed chemicals are being withheld as a trade secret. All concentrations are in percent by weight.

4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions.

Eye contact Rinse with water. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed May cause an allergic skin reaction. Dermatitis. Rash.

Indication of immediate medical attention and special treatment needed Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

General information If exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

5. Fire-fighting measures

Suitable extinguishing media Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions Move containers from fire area if you can do so without risk.

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up	This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways. Stop the flow of material, if this is without risk. Following product recovery, flush area with water. Put material in suitable, covered, labeled containers. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Should be handled in closed systems, if possible. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Store locked up. Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

US. OSHA Table Z-1 Permissible Exposure Limits (PEL) for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value	Form
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTHENIC (CAS 64742-52-5)	PEL	5 mg/m3	Mist.
		2000 mg/m3	
		500 ppm	
Magnesium Oxide (CAS 1309-48-4)	PEL	15 mg/m3	Total particulate.
Zinc Oxide (CAS 1314-13-2)	PEL	5 mg/m3	Fume.
		5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.

US. OSHA Table Z-3 Permissible Exposure Limits (PEL) for Mineral Dusts (29 CFR 1910.1000)

Components	Type	Value	Form
Magnesium Oxide (CAS 1309-48-4)	TWA	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
		50 mppcf	Total dust.
		15 mppcf	Respirable fraction.
Zinc Oxide (CAS 1314-13-2)	TWA	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
		50 mppcf	Total dust.
		15 mppcf	Respirable fraction.

US. ACGIH Threshold Limit Values (TLV)

Components	Type	Value	Form
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTHENIC (CAS 64742-52-5)	TWA	5 mg/m3	Inhalable fraction.
Magnesium Oxide (CAS 1309-48-4)	TWA	10 mg/m3	Inhalable fraction.

US. ACGIH Threshold Limit Values (TLV)

Components	Type	Value	Form
Rosin (CAS 8050-09-7)	TWA	0.001 mg/m3	Inhalable fraction.
Zinc Oxide (CAS 1314-13-2)	STEL	10 mg/m3	Respirable fraction.
	TWA	2 mg/m3	Respirable fraction.

NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended

Components	Type	Value
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTHENIC (CAS 64742-52-5)	IDLH	2500 mg/m3
Magnesium Oxide (CAS 1309-48-4)	IDLH	750 mg/m3
Zinc Oxide (CAS 1314-13-2)	IDLH	500 mg/m3

US. NIOSH: Pocket Guide to Chemical Hazards Recommended Exposure Limits (REL)

Components	Type	Value	Form
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTHENIC (CAS 64742-52-5)	Ceiling	1800 mg/m3	
	STEL	10 mg/m3	Mist.
Rosin (CAS 8050-09-7)	TWA	0.1 mg/m3	
Zinc Oxide (CAS 1314-13-2)	Ceiling	15 mg/m3	Dust.
	STEL	10 mg/m3	Fume.
	TWA	5 mg/m3	Fume.
		5 mg/m3	Dust.

Biological limit values No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection Protective gloves.

Other Normal work clothing (long sleeved shirts and long pants) is recommended.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations Observe any medical surveillance requirements. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

9. Physical and chemical properties

Appearance

Physical state Solid.

Form Solid.

Color Black.

Odor	Not available.
Odor threshold	Not available.
pH	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	No dangerous reaction known under conditions of normal use. Irritating and/or toxic fumes and gases may be emitted upon the product's decomposition.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Prolonged inhalation may be harmful.
Skin contact	May cause an allergic skin reaction.
Eye contact	Direct contact with eyes may cause temporary irritation.
Ingestion	Expected to be a low ingestion hazard.
Symptoms related to the physical, chemical and toxicological characteristics	May cause an allergic skin reaction. Dermatitis. Rash.

Information on toxicological effects

Acute toxicity	Not known.

Components	Species	Test Results
Magnesium Oxide (CAS 1309-48-4)		
Acute		
Oral		
LD50	Rat	3870 mg/kg
Zinc Oxide (CAS 1314-13-2)		
Acute		
Inhalation		
LC50	Mouse	> 5.7 mg/l, 4 Hours
Oral		
LD50	Rat	> 5 g/kg

Skin corrosion/irritation Due to partial or complete lack of data the classification is not possible.

Serious eye damage/eye irritation Due to partial or complete lack of data the classification is not possible.

Respiratory or skin sensitization

ACGIH sensitization

Resin acids, as total Resin Acids, inhalable fraction (CAS 8050-09-7)	Dermal sensitization
	Respiratory sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization May cause an allergic skin reaction.

Germ cell mutagenicity Due to partial or complete lack of data the classification is not possible.

Carcinogenicity May cause cancer.

IARC Monographs. Overall Evaluation of Carcinogenicity

DISTILLATES (PETROLEUM), HYDROTREATED HEAVY 3 Not classifiable as to carcinogenicity to humans.
NAPHTHENIC (CAS 64742-52-5)

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity Due to partial or complete lack of data the classification is not possible.

Specific target organ toxicity - single exposure Due to partial or complete lack of data the classification is not possible.

Specific target organ toxicity - repeated exposure Due to partial or complete lack of data the classification is not possible.

Aspiration hazard Not an aspiration hazard.

Chronic effects Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicity The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components		Species	Test Results
Tetramethylthiuram Monosulphide (CAS 97-74-5)			
Aquatic			
Acute			
Fish	LC50	Guppy (Poecilia reticulata)	4.2 - 6.8 mg/l, 96 hours
Zinc Oxide (CAS 1314-13-2)			
Aquatic			
Acute			
Fish	LC50	Fathead minnow (Pimephales promelas)	2246 mg/l, 96 hours

Persistence and degradability	No data is available on the degradability of any ingredients in the mixture.
Bioaccumulative potential	No data available.
Mobility in soil	No data available.
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.

15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Toxic Substances Control Act (TSCA) All components of the mixture on the TSCA 8(b) inventory are designated “active”.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical	Yes
Classified hazard categories	Respiratory or skin sensitization Carcinogenicity

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
Zinc Oxide	1314-13-2	1 - 5

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA) Not regulated.

US state regulations

California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date 05-12-2025

Version # 01

Disclaimer GCP cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.

SAFETY DATA SHEET

1. Identification

Product identifier **Bituthene HRA Protection G**

Other means of identification

Synonyms Flintlastic Base 20

Recommended use Modified bitumen protection membrane for hot rubber systems

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name GCP

Address 20 Moores Rd.
Malvern, PA 19355
United States

Telephone +1 866-333-3726

Website www.gcpat.com

E-mail Not available.

Emergency phone number 3E Global Incident Hotline
1 760 476 3962
1 866 519 4752 (Toll Free)
Access Code: 336250

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Not classified.

Environmental hazards Not classified.

OSHA defined hazards Not classified.

Label elements

Hazard symbol None.

Signal word None.

Hazard statement The product does not meet the criteria for classification.

Precautionary statement

Prevention Observe good industrial hygiene practices.

Response Wash hands after handling.

Storage Store away from incompatible materials.

Disposal Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise classified (HNOC) None known.

Supplemental information None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Asphalt		8052-42-4	25 - 55
Quartz		14808-60-7	5 - 35

Composition comments	The exact concentrations of the above listed chemicals are being withheld as a trade secret. All concentrations are in percent by weight. Non-classification as a carcinogen is based on the non-respirable form of the product.

4. First-aid measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	Coughing.
Indication of immediate medical attention and special treatment needed	Treat symptomatically.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media	Foam. Dry powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Stop the flow of material, if this is without risk. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS. The product is insoluble in water.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling	Avoid prolonged exposure. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Store in a dry place. Store in a well-ventilated place.

8. Exposure controls/personal protection

Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

US. OSHA Table Z-1 Permissible Exposure Limits (PEL) for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value	Form
Quartz (CAS 14808-60-7)	PEL	0.05 mg/m3	Respirable dust.

US. OSHA Table Z-3 Permissible Exposure Limits (PEL) for Mineral Dusts (29 CFR 1910.1000)

Components	Type	Value	Form
Quartz (CAS 14808-60-7)	TWA	0.1 mg/m3	Respirable.
		2.4 mppcf	Respirable.

US. ACGIH Threshold Limit Values (TLV)

Components	Type	Value	Form
Asphalt (CAS 8052-42-4)	TWA	0.5 mg/m3	Inhalable fume.
Quartz (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.

NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended

Components	Type	Value
Quartz (CAS 14808-60-7)	IDLH	50 mg/m3

US. NIOSH: Pocket Guide to Chemical Hazards Recommended Exposure Limits (REL)

Components	Type	Value	Form
Asphalt (CAS 8052-42-4)	Ceiling	5 mg/m3	Fume.
Quartz (CAS 14808-60-7)	TWA	0.05 mg/m3	Respirable dust.

Biological limit values

ACGIH Biological Exposure Indices (BEI)

Components	Value	Determinant	Specimen	Sampling Time
Asphalt (CAS 8052-42-4)	2.5 µg/l	1-Hydroxypyrene, with hydrolysis (1-HP)	Urine	*

* - For sampling details, please see the source document.

Appropriate engineering controls Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection Wear appropriate chemical resistant gloves.

Other Wear suitable protective clothing.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance

Physical state Solid.

Form Solid.

Color Black.

Odor Petroleum-like.

Odor threshold Not available.

pH Not available.

Melting point/freezing point Not available.

Initial boiling point and boiling range Not available.

Flash point Not available.

Evaporation rate Not available.

Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Explosive limit - lower (%) Not available.

Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Insoluble
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Explosive properties	Not explosive.
Explosivity	Product does not present an explosion hazard.
Oxidizing properties	Not oxidizing.

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Powerful oxidizers. Chlorine.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Under normal conditions of intended use, this material is not expected to be an inhalation hazard.
Skin contact	No adverse effects due to skin contact are expected.
Eye contact	Direct contact with eyes may cause temporary irritation.
Ingestion	Expected to be a low ingestion hazard.
Symptoms related to the physical, chemical and toxicological characteristics	Not available.

Information on toxicological effects

Acute toxicity Not known.

Components	**Species**	**Test Results**
Asphalt (CAS 8052-42-4)		
Acute		
Dermal		
LD50	Rabbit	> 2000 mg/kg
Oral		
LD50	Rat	> 5000 mg/kg

Skin corrosion/irritation	Due to partial or complete lack of data the classification is not possible.
Serious eye damage/eye irritation	Due to partial or complete lack of data the classification is not possible.
Respiratory or skin sensitization	
Respiratory sensitization	Due to partial or complete lack of data the classification is not possible.

Skin sensitization	Due to partial or complete lack of data the classification is not possible.
Germ cell mutagenicity	Due to partial or complete lack of data the classification is not possible.
Carcinogenicity	Reference to chemical component(s) listed are based on unbound respirable particles and are not generally applicable to product as supplied.

IARC Monographs. Overall Evaluation of Carcinogenicity

Asphalt (CAS 8052-42-4)	2B Possibly carcinogenic to humans.
Quartz (CAS 14808-60-7)	1 Carcinogenic to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Quartz (CAS 14808-60-7)	Cancer

US. National Toxicology Program (NTP) Report on Carcinogens

Asphalt (CAS 8052-42-4)	Known To Be Human Carcinogen.
Quartz (CAS 14808-60-7)	Known To Be Human Carcinogen.

Reproductive toxicity	Due to partial or complete lack of data the classification is not possible.
Specific target organ toxicity - single exposure	Due to partial or complete lack of data the classification is not possible.
Specific target organ toxicity - repeated exposure	Not classified.
Aspiration hazard	Due to partial or complete lack of data the classification is not possible.
Chronic effects	Not expected to be hazardous by OSHA criteria.

12. Ecological information

Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
Persistence and degradability	No data is available on the degradability of any ingredients in the mixture.
Bioaccumulative potential	No data available.
Mobility in soil	No data available.
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.

15. Regulatory information

US federal regulations This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Toxic Substances Control Act (TSCA) All components of the mixture on the TSCA 8(b) inventory are designated “active”.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Quartz (CAS 14808-60-7)	Cancer lung effects immune system effects kidney effects

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical No

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Asphalt (CAS 8052-42-4)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA) Not regulated.

US state regulations

California Proposition 65

WARNING: This product can expose you to chemicals including Asphalt, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

California Proposition 65 - CRT: Listed date/Carcinogenic substance

Asphalt (CAS 8052-42-4)	Listed: January 1, 1990
Quartz (CAS 14808-60-7)	Listed: October 1, 1988

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

Country(s) or region	Inventory name	On inventory (yes/no)*
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date 05-12-2025

Version # 01

Disclaimer GCP cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.

SAFETY DATA SHEET

1. Identification

Product identifier **Bituthene HRA Protection P**

Other means of identification

Product Identifier ARTICLE

Synonyms Flintlastic Poly SMS

Recommended use Modified bitumen waterproofing protection sheet

Recommended restrictions No other uses are advised.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name GCP

Address 20 Moores Rd.
Malvern, PA 19355
United States

Telephone +1 866-333-3726

Website www.gcpat.com

E-mail Not available.

Emergency phone number 3E Global Incident Hotline
1 760 476 3962
1 866 519 4752 (Toll Free)
Access Code: 336250

2. Hazard(s) identification

This product is considered as an Article as outlined in OSHA's Hazardous Communication Standard (29 CFR 1910.1200), and thus is not required to have a Safety Data Sheet (SDS). This SDS is prepared and offered for information only. OSHA's HCS definition of "Article" means "a manufactured item other than a fluid or particle: (i) which is formed to a specific shape or design during manufacture; (ii) which has end use function(s) dependent in whole or in part upon its shape or design during end use; and (iii) which under normal conditions of use does not release more than very small quantities, e.g., minute or trace amounts of a hazardous chemical (as determined under paragraph (d) of this section), and does not pose a physical hazard or health risk to employees." 29 CFR 1910.1200(c).

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Modified bitumen waterproofing protection sheet		NA	100

This product is an article.

4. First-aid measures

This product is an article and is not expected to release hazardous chemicals under normal conditions of use.

5. Fire-fighting measures

Suitable extinguishing media Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing media Not available.

Specific hazards arising from the chemical Not applicable.

Special protective equipment and precautions for firefighters Not available.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Not available.
Methods and materials for containment and cleaning up	Not available.
Environmental precautions	Not available.

7. Handling and storage

Precautions for safe handling	Not available.
Conditions for safe storage, including any incompatibilities	Not available.

8. Exposure controls/personal protection

This product is considered to be an article which does not release or otherwise result in exposure to a hazardous chemical under normal use conditions. No engineering controls or personal protective equipment (PPE) are necessary.

9. Physical and chemical properties

Appearance	Solid.
Physical state	Solid.
Form	Sheets.
Color	Black.
Odor	Odorless.
Odor threshold	Not available.
pH	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Insoluble.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Not available.

Possibility of hazardous reactions	Not available.
Conditions to avoid	Not available.
Incompatible materials	Not available.
Hazardous decomposition products	Not available.

11. Toxicological information

This product, when used under reasonable conditions and in accordance with the directions for use, should not present a health hazard. However, use or processing of the product in a manner not in accordance with the product's directions for use may affect the performance of the product and may present potential health and safety hazards

12. Ecological information

This article is expected to present a low environmental risk either because use and disposal are unlikely to result in a significant release of components to the environment or because those components that may be released are expected to have insignificant environmental impact.

13. Disposal considerations

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

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.

15. Regulatory information

This product is an article as defined by TSCA regulations, and is exempt from TSCA Inventory requirements.

16. Other information, including date of preparation or last revision

Issue date	05-12-2025
Version #	01
Disclaimer	GCP cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.

Safety Data Sheet

Printing date 05/08/2018 **Version Number 1.0** **Reviewed on 05/08/2018**

*

1 Identification

Product identifier

Trade name: ***Bituthene Adhesive Primer B2 LVC***

SDS ID Number: 60028

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

Flammable liquid and vapor.

Causes skin irritation.

May cause genetic defects.

May cause cancer.

Causes damage to organs through prolonged or repeated exposure. May cause damage to the central nervous system through prolonged or repeated exposure.

Label elements:

Hazard pictograms

GHS02 GHS07 GHS08

Danger

Hazard statements
Flammable liquid and vapor.
Causes skin irritation.
May cause genetic defects.
May cause cancer.
Causes damage to organs through prolonged or repeated exposure. May cause damage to the central nervous system through prolonged or repeated exposure.

(Cont. on page 2)

Safety Data Sheet

Trade name: *Bituthene Adhesive Primer B2 LVC*

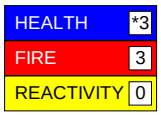
(Cont. from page 1)

Precautionary statements
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Keep container tightly closed.
Ground/bond container and receiving equipment.
Take precautionary measures against static discharge.
Wear protective gloves/protective clothing/eye protection/face protection.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF exposed or concerned: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.
If skin irritation occurs: Get medical advice/attention.
Store in a well-ventilated place. Keep cool.

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

Health = 2
Fire = 3
Reactivity = 0

HMIS-ratings (scale 0 - 4)



Health = *3
Flammability = 3
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:		
68478-07-9	Hydrocarbon Resin	30-50%
95-47-6	Xylene (o)	10-20%
8052-41-3	Stoddard solvent	2.0-5.0%
63449-39-8	Paraffin waxes and hydrocarbon waxes	1.0-2.0%
8052-42-4	Asphalt	1.0-2.0%
100-41-4	Ethylbenzene	0.1-1.0%

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. 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.

(Cont. on page 3)

Safety Data Sheet

Trade name: *Bituthene Adhesive Primer B2 LVC*

(Cont. from page 2)

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

Extinguishing media

Suitable extinguishing agents: CO2, sand,extinguishing powder. Do not use water.

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

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

Avoid contact with skin.

Prevent formation of aerosols.

Flammable mixtures with air can be formed in emptied containers. Do not puncture, cut, drill, heat or weld uncleaned drums.

Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Use only in explosion protected area.

Protect against electrostatic charges.

Use explosion-proof apparatus / fittings and spark-proof tools.

(Cont. on page 4)

Safety Data Sheet

Trade name: *Bituthene Adhesive Primer B2 LVC*

(Cont. from page 3)

Empty containers may retain hazardous residue, both liquid and vapor.

Conditions for safe storage, including any incompatibilities

Storage:

Information about storage in one common storage facility: Use only in explosion protected area.

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:	
95-47-6 Xylene (o)	
PEL (USA)	Long-term value: 435 mg/m³, 100 ppm
REL (USA)	Short-term value: 655 mg/m³, 150 ppm Long-term value: 435 mg/m³, 100 ppm
TLV (USA)	Short-term value: 651 mg/m³, 150 ppm Long-term value: 434 mg/m³, 100 ppm BEI
8052-41-3 Stoddard solvent	
PEL (USA)	Long-term value: 2900 mg/m³, 500 ppm
REL (USA)	Long-term value: 350 mg/m³ Ceiling limit value: 1800* mg/m³ *15-min
TLV (USA)	Long-term value: 525 mg/m³, 100 ppm
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:	
95-47-6 Xylene (o)	
BEI (USA)	1.5 g/g creatinine Medium: urine Time: end of shift Parameter: Methylhippuric acids
8052-42-4 Asphalt	
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.

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.).

(Cont. on page 5)

Safety Data Sheet

Trade name: *Bituthene Adhesive Primer B2 LVC*

(Cont. from page 4)

A chemical cartridge respirator with organic vapor cartridge is required if occupational exposure limits are exceeded. A dust/mist cartridge or prefilter may be needed in addition to control exposure to mist. Supplied air respirator (SCBA) is required at exposure levels above the capabilities of a chemical cartridge respirator.

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:

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:	161 °C (321.8 °F)
Flash point:	27 °C (80.6 °F)
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	465 °C (869 °F)
Decomposition temperature:	Not determined.
Auto igniting:	Product is not self-igniting.
Danger of explosion:	In use, may form flammable/explosive vapor-air mixture.
Explosion limits:	
Lower:	1.7 Vol %
Upper:	7.6 Vol %
VOC Content (max):	Not determined.
Vapor pressure at 20 °C (68 °F):	7 hPa (5.3 mm Hg)
Density: (~) at 20 °C (68 °F)	1 g/cm³ (8.3 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.

(Cont. on page 6)

Safety Data Sheet

Trade name: *Bituthene Adhesive Primer B2 LVC*

(Cont. from page 5)

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 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
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: Causes skin irritation.

on the eye: No irritating effect expected

inhalation: No irritating effect expected

Additional toxicological information:
The product can cause inheritable damage.
Over exposure by inhalation or ingestion may be fatal. Chemicals contained in this product can affect the skin, heart, brain, liver, kidneys, lungs and spleen. Some harmful effects are also possible through skin absorption.

Carcinogenic categories

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

95-47-6	Xylene (o)	3
8052-42-4	Asphalt	2B
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.

(Cont. on page 7)

Safety Data Sheet

Trade name: *Bituthene Adhesive Primer B2 LVC*

(Cont. from page 6)

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 product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

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	UN3295
UN proper shipping name	
DOT	Hydrocarbons, liquid, n.o.s.
IMDG, IATA	HYDROCARBONS, LIQUID, N.O.S.
Transport hazard class(es)	
DOT	

Class	3 Flammable liquids

(Cont. on page 8)

Safety Data Sheet

Trade name: *Bituthene Adhesive Primer B2 LVC*

(Cont. from page 7)

Label 3

IMDG, IATA

Class 3 Flammable liquids
Label 3

Packing group
DOT, IMDG, IATA III

Environmental hazards:
Marine pollutant: No

Special precautions for user Warning: Flammable liquids
Danger code (Kemler): 30
EMS Number: F-E,S-D
Stowage Category A

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 3295 HYDROCARBONS, LIQUID, N.O.S., 3, III

*

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):

95-47-6	Xylene (o)	14.5%

SARA Section 312/Tier I & II Hazard Categories:
Physical Hazard - Flammable (gases, aerosols, liquids, or solids)
Health Hazard - Carcinogenicity
Health Hazard - Skin Corrosion or Irritation
Health Hazard - Specific target organ toxicity (single or repeated exposure)
Health Hazard - Germ cell mutagenicity

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:

616-38-6	dimethyl carbonate

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

Chemicals known to cause cancer:
Ethylbenzene

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

(Cont. on page 9)

Safety Data Sheet

Trade name: *Bituthene Adhesive Primer B2 LVC*

(Cont. from page 8)

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**	
Xylene (o)	A4
Asphalt	A4

NIOSH-Cancer (National Institute for Occupational Safety and Health)	
8052-42-4	Asphalt

Volatile Organic Compounds (VOC) reported per the Emission Standards. 192 grams/liter

*

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.

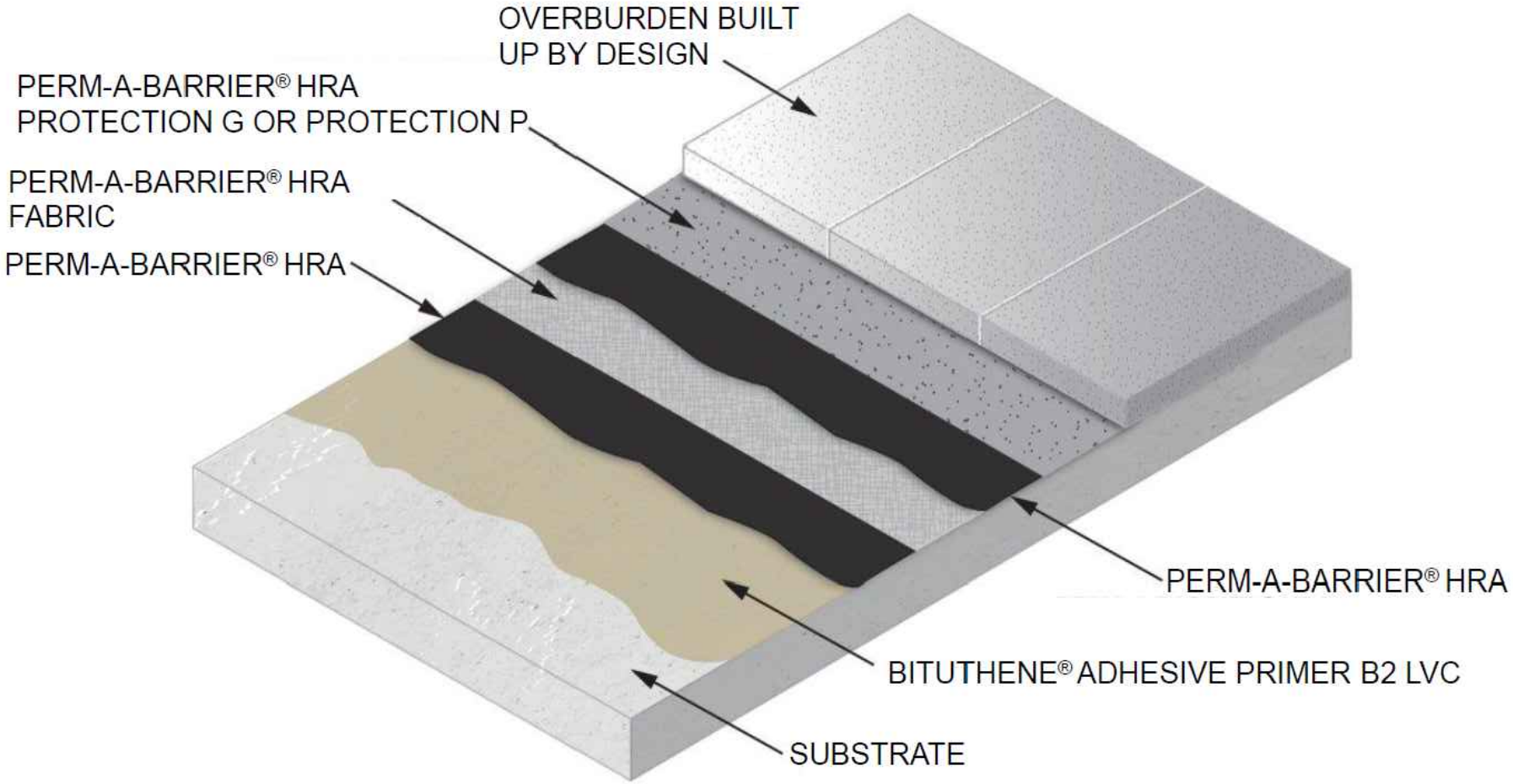
Department issuing SDS:

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 05/08/2018 / -

The first date of preparation 03/04/2015

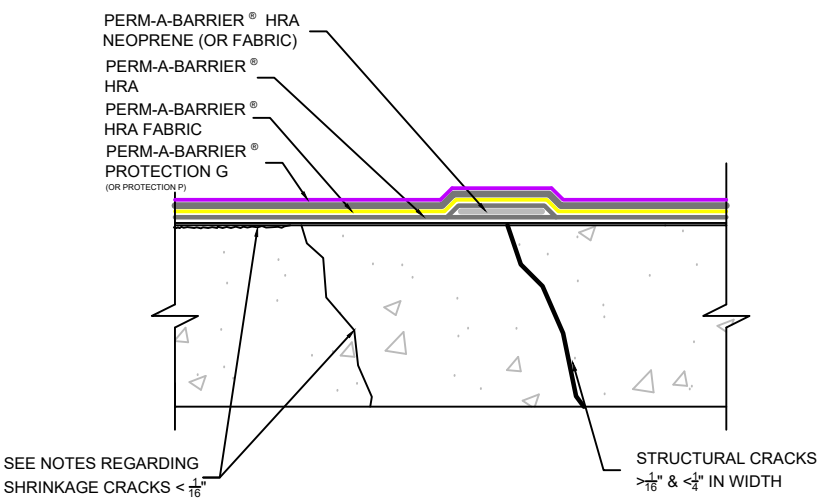
Number of revision times and the latest revision date 1.0 / 05/08/2018

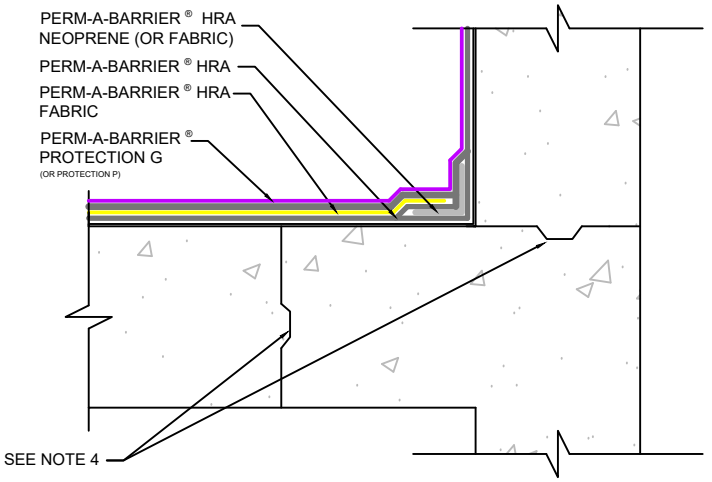


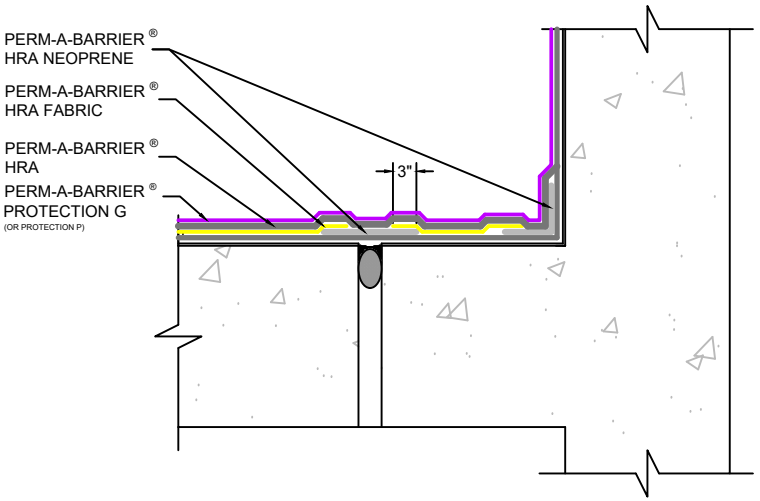
OVERALL ASSEMBLY

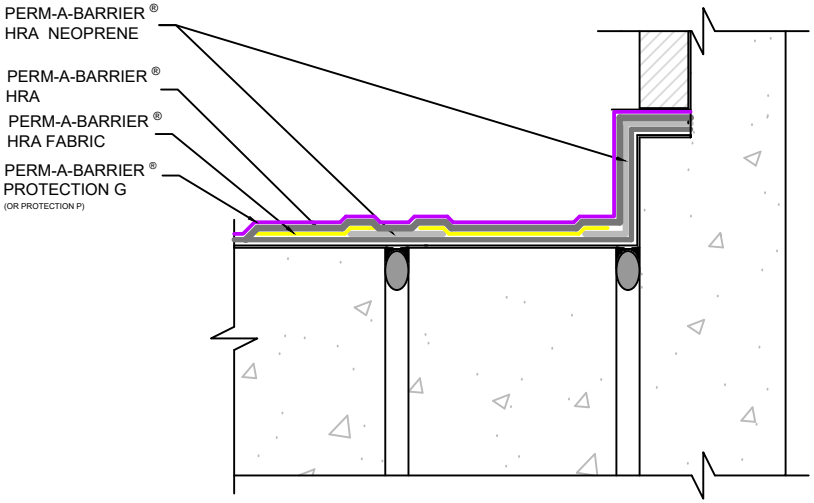
PERM-A-BARRIER® HRA WATERPROOFING SYSTEM

DRAWING: HRA-001
SCALE: NOT TO SCALE
EFFECTIVE DATE: 07-01-2024
SUPERCEDES: N/A









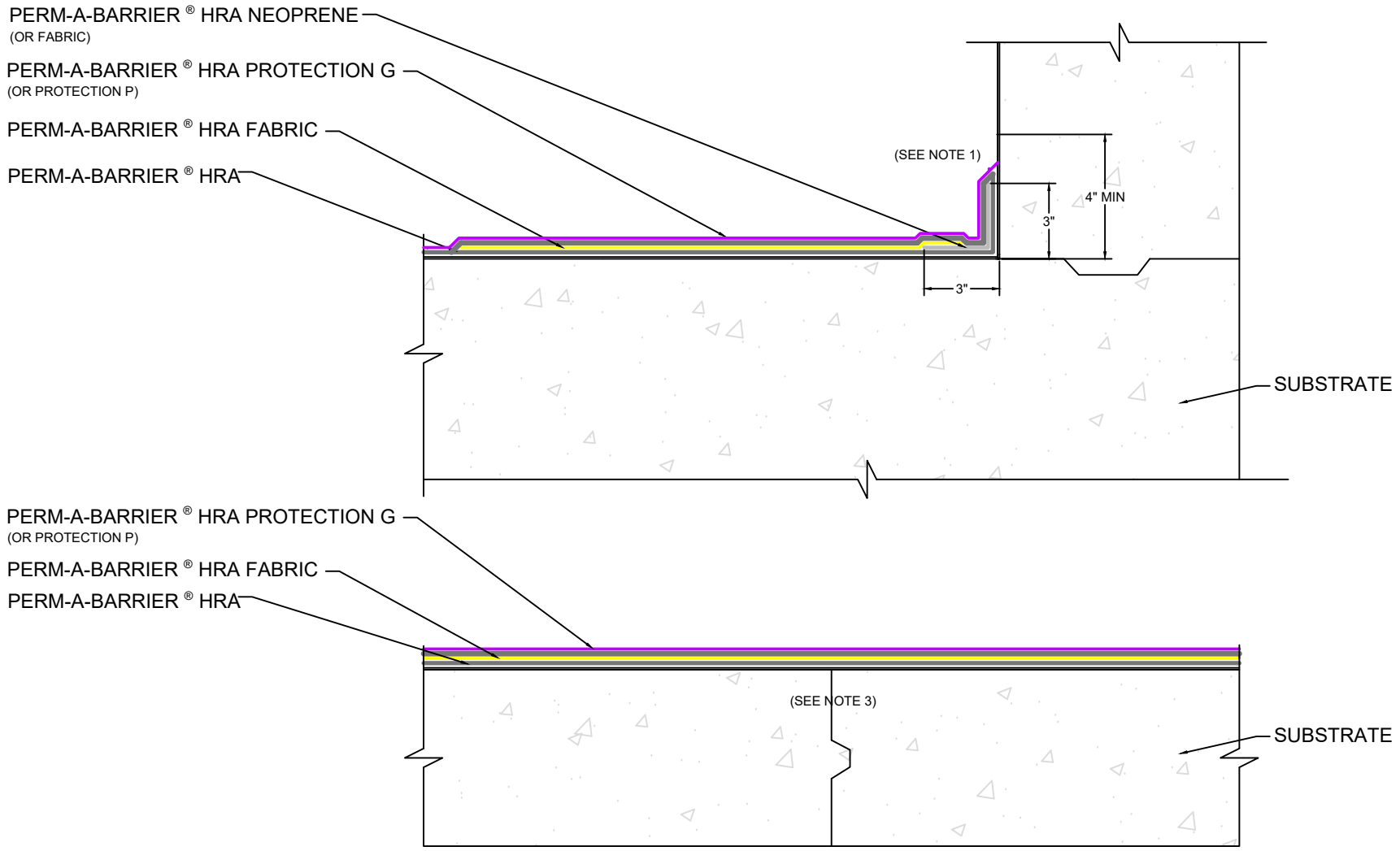
NOTES:

1. ADDTL REINFORCEMENT NOT REQUIRED FOR ROUGH CONCRETE OR CRACKS UP TO 1/16 "
2. EXPANSION JOINTS UP TO 1" IN WIDTH AND MAX 25% MOVEMENT ACCOMMODATION FACTOR (REF. HRA-004)
3. FOR EXPANSION JOINTS GREATER THAN 2", EXPANSION JOINTS ANTICIPATING GREATER THAN 25%
4. CONSTRUCTION JOINTS & AT ALL CHANGES IN PLANE (HRA-003)
5. MOVEMENT ACCOMMODATION FACTOR AND FOR SEISMIC EXPANSION JOINTS, THE USE OF PRE-FABRICATED, PROPRIETARY JOINT SYSTEMS SHOULD BE CONSIDERED

CRACK AND JOINT TREATMENT

PERM-A-BARRIER® HRA WATERPROOFING SYSTEM

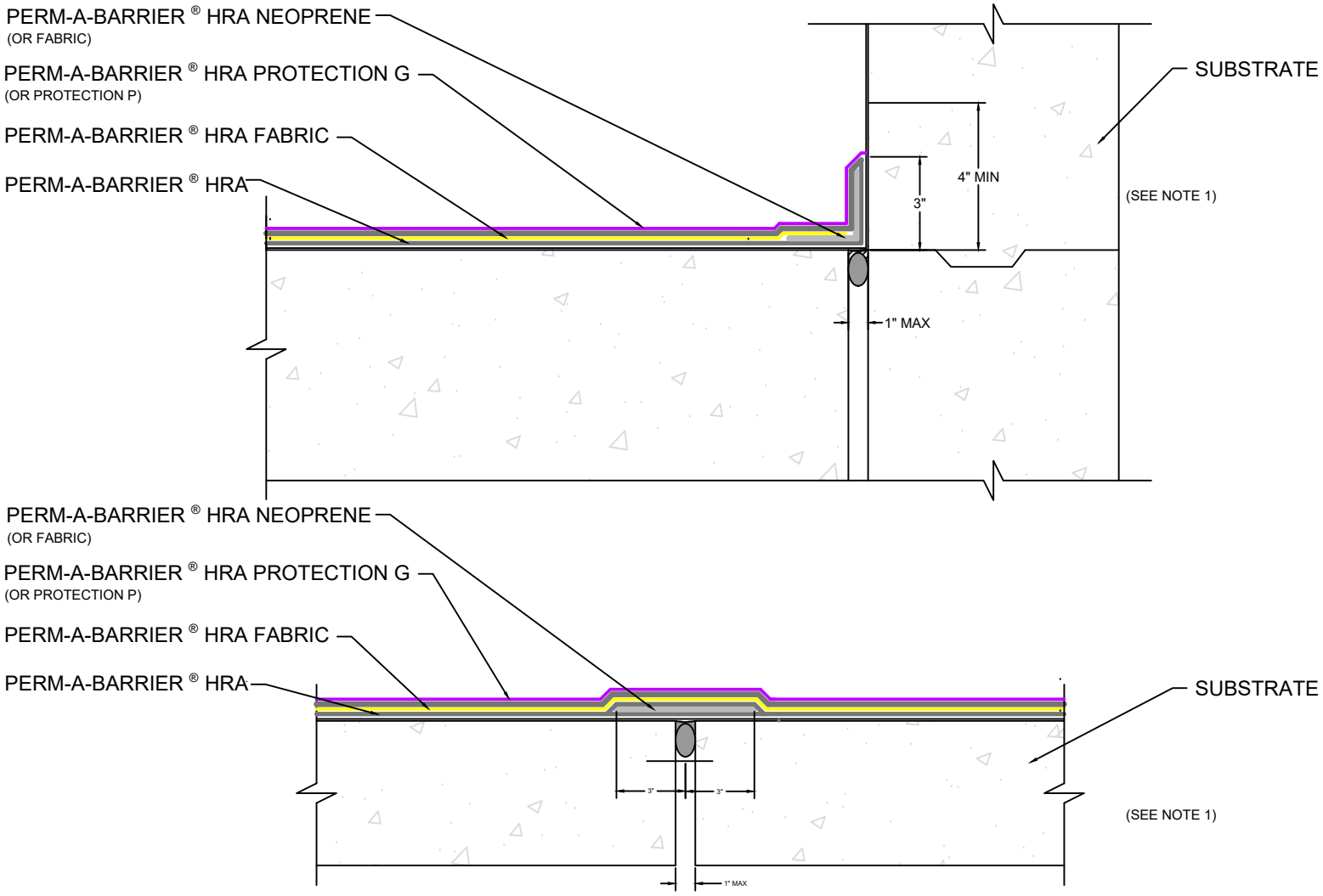
DRAWING: HRA-002
SCALE: NOT TO SCALE
EFFECTIVE DATE: 07-01-2024
SUPERCEDES: N/A



NOTES:
1. IN COVERED/BURIED CONDITIONS, HRA IS EXTENDED AS CONTINUOUS FLASHING AS HIGH AS POSSIBLE. FLASHING MUST BE TERMINATED AT OVERBURDEN LEVEL AND NO LESS THAN 4" ABOVE THE SUBSTRATE
2. REGLETS CAN BE CAST/FORMED OR CUT INTO THE CONCRETE. REGLETS SHOULD BE MIN. 1/2" DEEP AND PROVIDE AN EASY TRANSITION FOR THE MEMBRANE FLASHING
3. ADDITIONAL REINFORCEMENT NOT REQUIRED AT TYPICAL CONSTRUCTION/CONTROL JOINTS WITH THE FABRIC REINFORCED ASSEMBLY

CONCRETE CONSTRUCTION JOINTS
PERM-A-BARRIER ® HRA WATERPROOFING SYSTEM

DRAWING: HRA-003
SCALE: NOT TO SCALE
EFFECTIVE DATE: 07-01-2024
SUPERCEDES: N/A



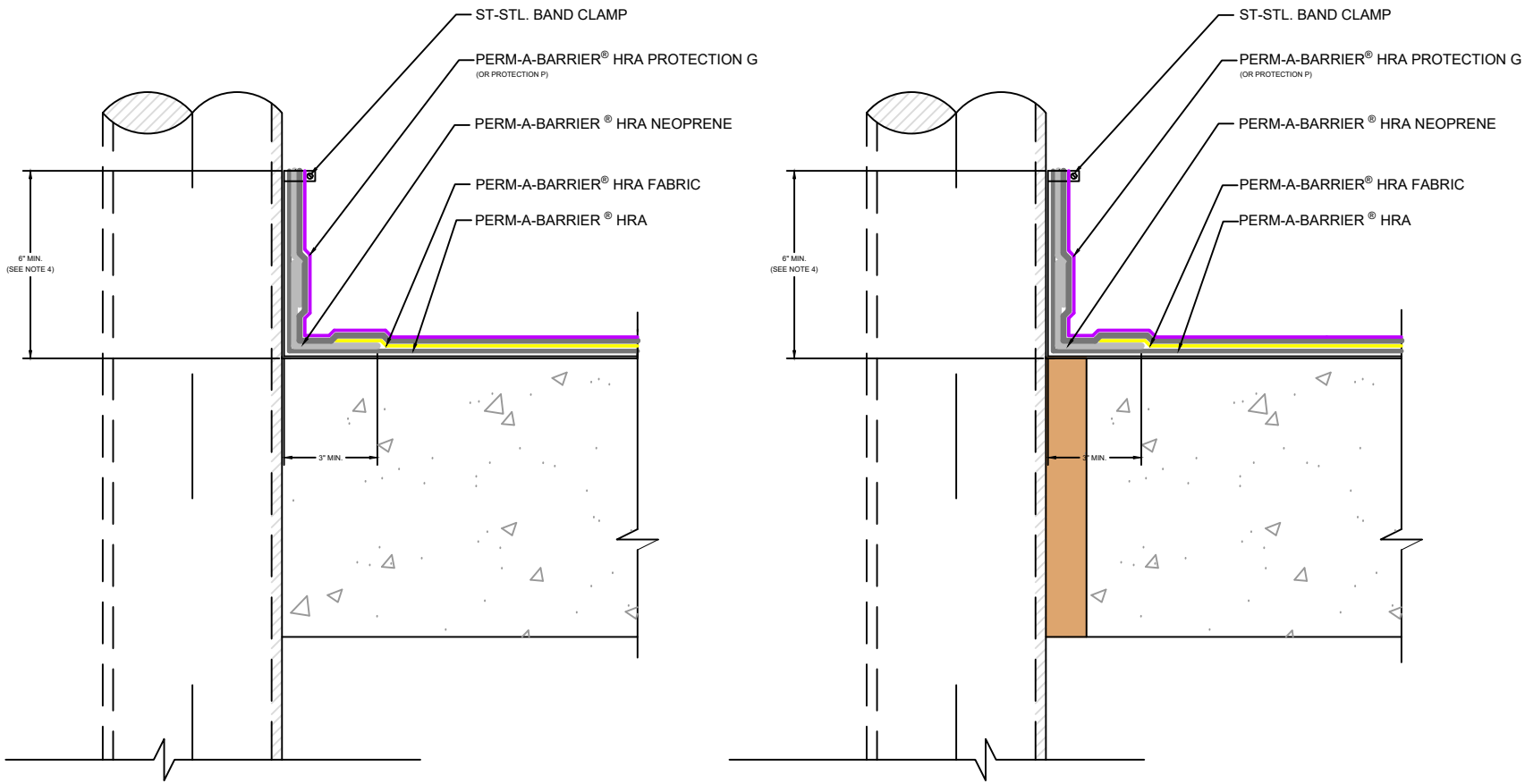
NOTES:

1. DETAIL DESIGNED FOR JOINTS WITH MAX. MOVEMENT ACCOMMODATION FACTOR OF 25%.
2. BACKER ROD AND SEALANT ARE REQUIRED IN JOINT PRIOR TO HRA INSTALLATION.
3. IN COVERED/BURIED CONDITIONS, HRA IS EXTENDED AS CONTINUOUS FLASHING AS HIGH AS THE OVERBURDEN LEVEL. FLASHING MUST BE TERMINATED NO LESS THAN 4" ABOVE SUBSTRATE. ADDITIONALLY, ADEQUATE PROTECTION MUST BE PROVIDED FOR FLASHING FROM SUBSEQUENT TOPPING/BACKFILL. WHENEVER POSSIBLE THE EXPANSION JOINT SHOULD BE EXTENDED UP THROUGH ALL TOPPING LAYERS.
4. REGLETS CAN BE CAST/FORMED OR CUT INTO THE CONCRETE. REGLETS SHOULD BE MIN. $\frac{1}{2}$" DEEP AND PROVIDE AN EASY TRANSITION FOR THE MEMBRANE FLASHING.

EXPANSION JOINTS UP TO 1" AS-BUILT WIDTH

PERM-A-BARRIER ® HRA MEMBRANE SYSTEM

DRAWING: HRA-004
SCALE: NOT TO SCALE
EFFECTIVE DATE: 07-01-2024
SUPERCEDES: N/A



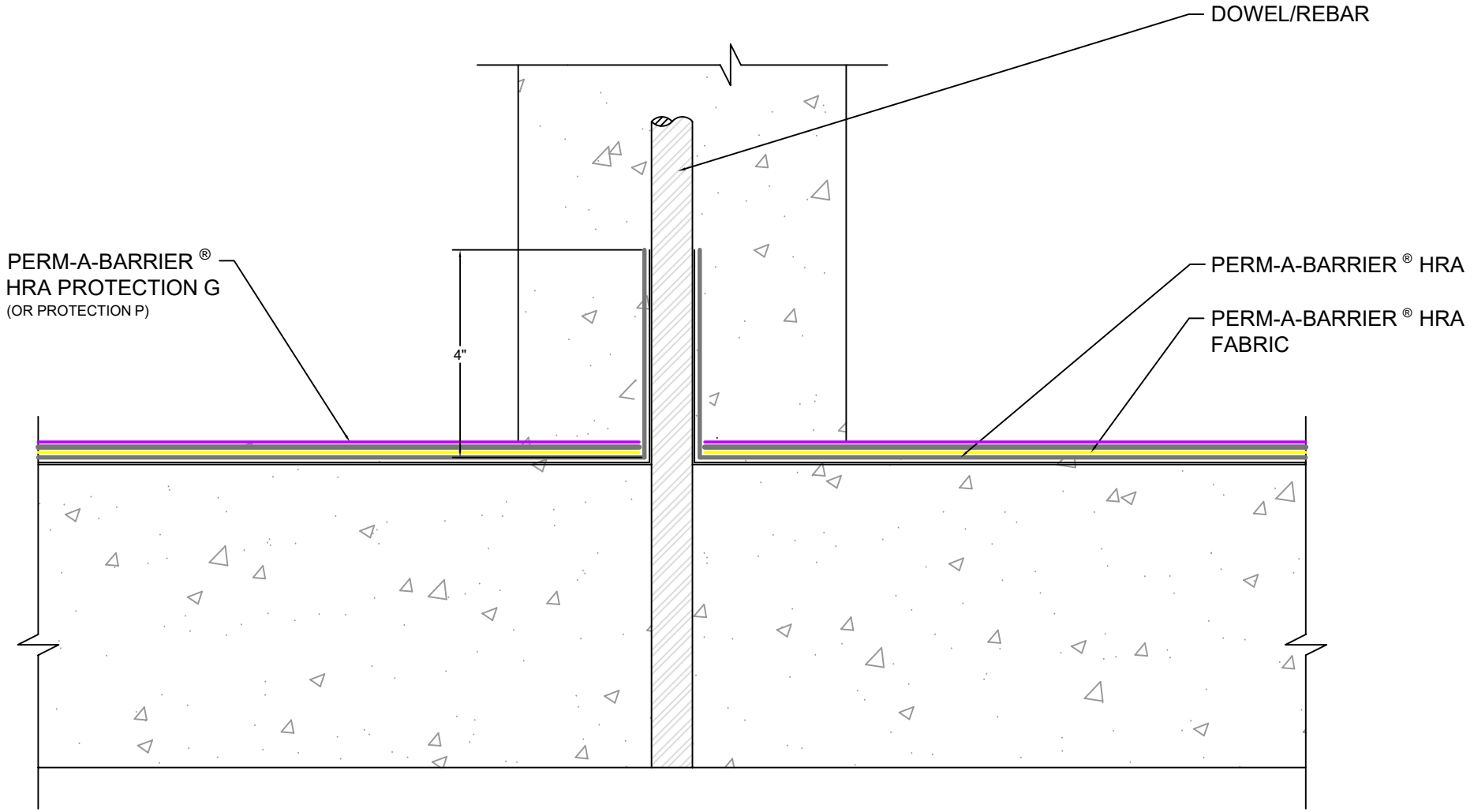
NOTES:

1. PENETRATION MUST BE PROPERLY SECURED TO STRUCTURE TO PREVENT VERTICAL OR LATERAL MOVEMENT. EXPOSED DECK CLAMPS ARE NOT APPROPRIATE.
2. SOME PIPE MATERIALS (PVC, COPPER, BRASS) MAY REQUIRE ROUGHENING/SANDING, IN ADDITION TO WIPING W/SURFACE CONDITIONER FOR PROPER ADHESION OF HRA. METAL PIPES MUST BE FREE OF ALL OIL AND RUST.
3. THE SAME DETAILING ABOVE WOULD BE EMPLOYED FOR PENETRATIONS THROUGH VERTICAL/FOUNDATION WALL APPLICATIONS.
4. IN COVERED/BURIED CONDITIONS, THE FLASHING DETAIL SHOULD BE EXTENDED AS HIGH AS POSSIBLE. FLASHING MUST BE TERMINATED AT OVERBURDEN LEVEL AND NO LESS THAN 6" ABOVE SUBSTRATE

PIPE PENETRATION

PERM-A-BARRIER ® HRA WATERPROOFING SYSTEM

DRAWING: HRA-005
SCALE: NOT TO SCALE
EFFECTIVE DATE: 07-01-2024
SUPERCEDES: N/A



NOTES:

1. DOWEL/REBAR MUST BE PROPERLY SECURED TO STRUCTURE TO PREVENT VERTICAL OR LATERAL MOVEMENT.
2. PENETRATIONS MAY REQUIRE WIPING W/SURFACE CONDITIONER FOR PROPER ADHESION OF HRA. DOWEL/REBAR MUST BE FREE FOM ANY OIL, RUST OR OTHER CONTAMINATIONS.
3. DRAINAGE FROM ONE SIDE OF THE WALL TO THE OTHER MUST BE ACCCOMMODATED. IF DECK DRAINS ARE NOT PLACED WITHIN THE CONFINED SPACE, SIMPLE SCUPPERS MAY BE FORMED INTO THE BASE OF THE WALL WITH PVC PIPE SECTION, CUT IN HALF AND LAID UPSIDE DOWN IN THE WALL FORMS.

gcp

DOWEL/REBAR

PERM-A-BARRIER® HRA WATERPROOFING SYSTEM

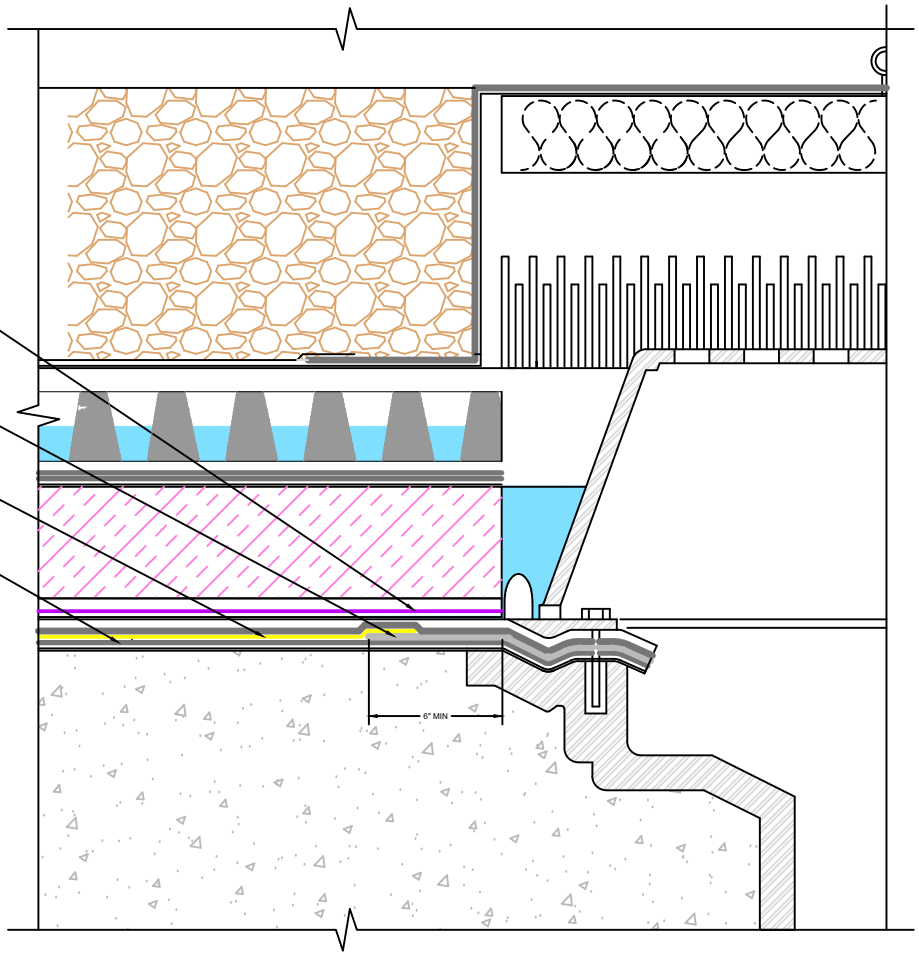
DRAWING: HRA-006
SCALE: NOT TO SCALE
EFFECTIVE DATE: 07-01-2024
SUPERCEDES: N/A

PERM-A-BARRIER ® HRA
PROTECTION G
(OR PROTECTION P)

PERM-A-BARRIER ® HRA
NEOPRENE

PERM-A-BARRIER ® HRA
FABRIC

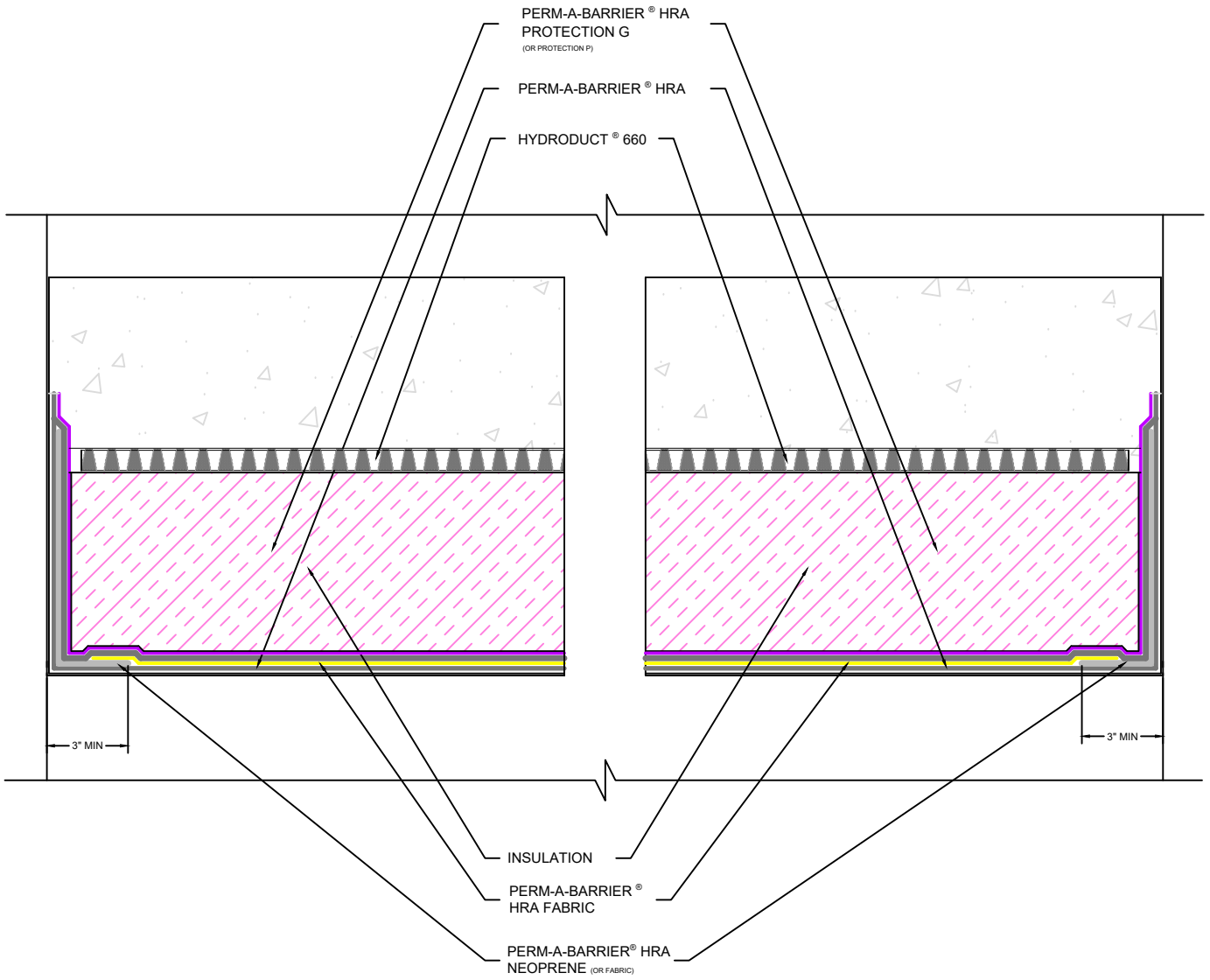
PERM-A-BARRIER ® HRA



DRAIN DETAIL

PERM-A-BARRIER ® HRA WATERPROOFING SYSTEM

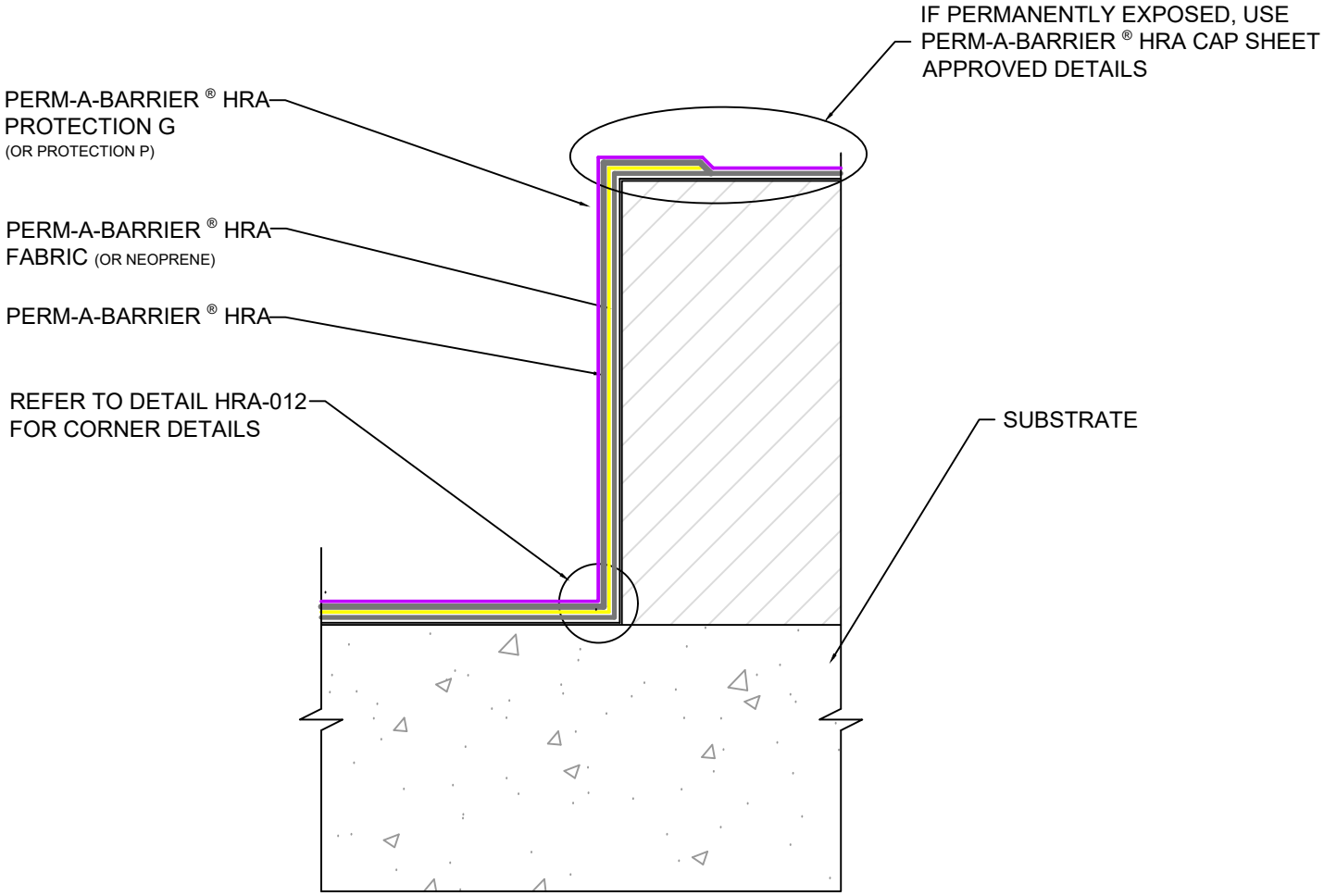
DRAWING: HRA-007
SCALE: NOT TO SCALE
EFFECTIVE DATE: 07-01-2024
SUPERCEDES: N/A



CURB DETAIL

PERM-A-BARRIER ® HRA MEMBRANE SYSTEM

DRAWING: HRA-008
SCALE: NOT TO SCALE
EFFECTIVE DATE: 07-01-2024
SUPERCEDES: N/A



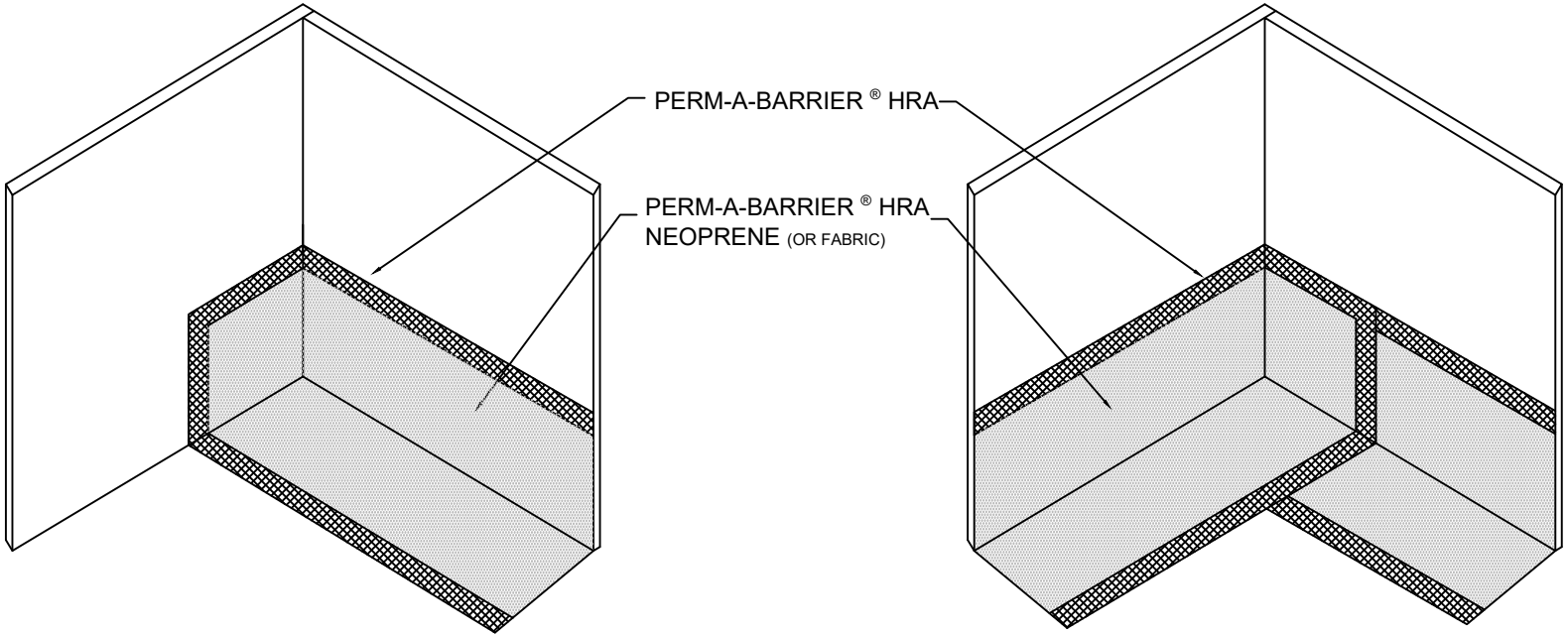
PLANTER

PERM-A-BARRIER ® HRA MEMBRANE SYSTEM

DRAWING: HRA-009
SCALE: NOT TO SCALE
EFFECTIVE DATE: 07-01-2024
SUPERCEDES: N/A

STEP 1

STEP 2



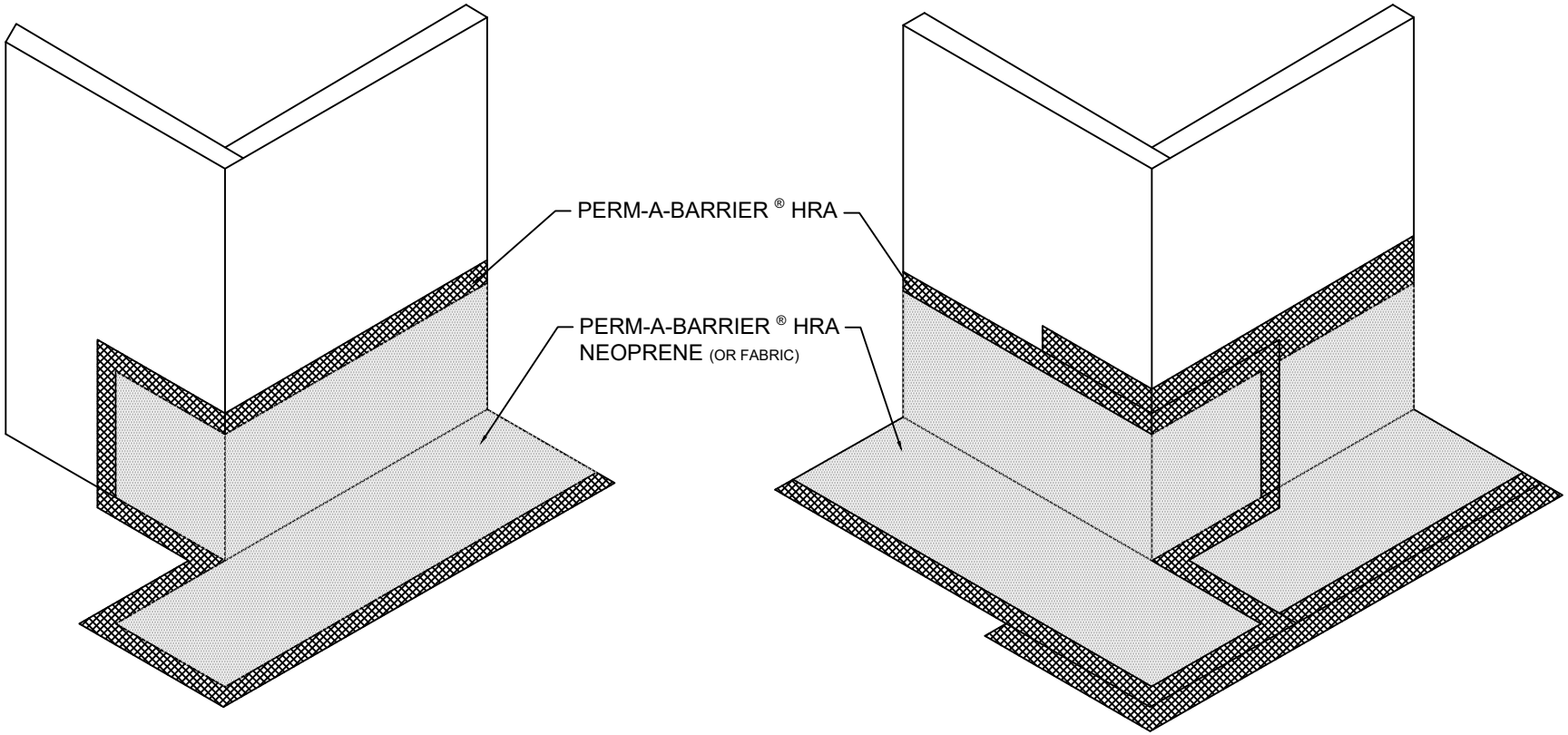
INSIDE CORNER

PERM-A-BARRIER ® HRA WATERPROOFING SYSTEM

DRAWING: HRA-010
SCALE: NOT TO SCALE
EFFECTIVE DATE: 07-01-2024
SUPERCEDES: N/A

STEP 1

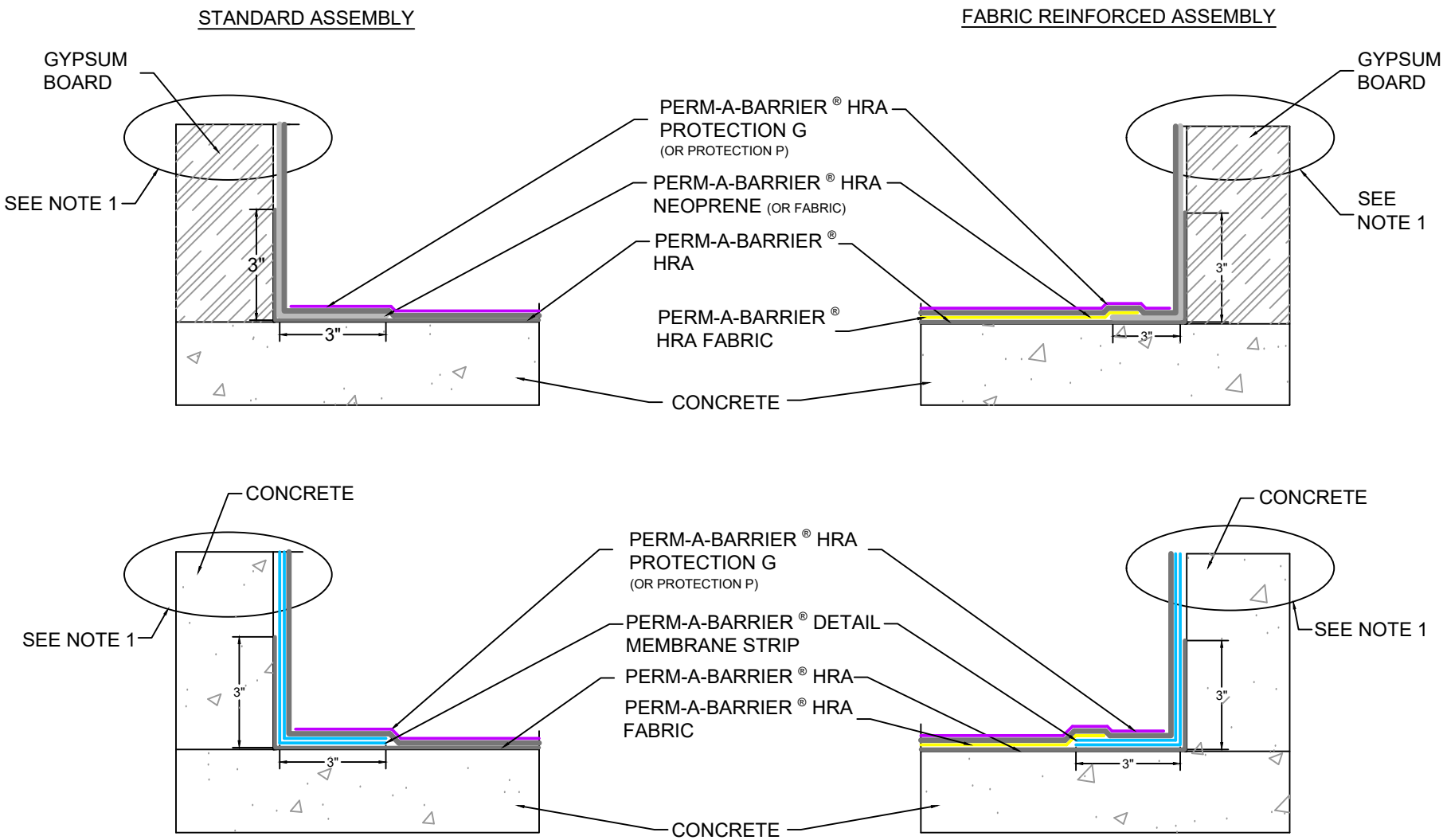
STEP 2



OUTSIDE CORNER

PERM-A-BARRIER ® HRA WATERPROOFING SYSTEM

DRAWING: HRA-011
SCALE: NOT TO SCALE
EFFECTIVE DATE: 07-01-2024
SUPERCEDES: N/A



NOTES
1. CORNER WILL TRANSITION BY DESIGN OF THE WALL, FOLLOW GCP APPROVED TIE-IN DETAIL

CORNER TRANSITION
PERM-A-BARRIER ® HRA WATERPROOFING SYSTEM

DRAWING: HRA-012
SCALE: NOT TO SCALE
EFFECTIVE DATE: 07-01-2024
SUPERCEDES: N/A