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SWELLPRUFE® Data Sheet

Versatile, dual protection next generation bentonite & rubberized asphalt waterproofing membrane that bonds integrally to poured concrete for blind side and post-applied walls applications.

Product Description

GCP SWELLPRUFE®Waterproofing Membrane bonds directly to poured concrete and shotcrete in blindside applications. SWELLPRUFE®combines the self-sealing properties of bentonite with specially formulated rubberized asphalt sheets. In blindside applications, when exposed to water from below, the bentonite layer on the underside of SWELLPRUFE swells significantly compared to its dry volume, restricting water movement. The rubberized asphalt top layer of SWELLPRUFE fully and continuously adheres to concrete or shotcrete applied onto SWELLPRUFE.

Mechanically attached overlaps, which offer expedited installation, hydrate and swell, creating a confined seal when exposed to water. Alternatively, hot-welded overlaps provide a watertight seal without confinement.

SWELLPRUFE®is designed for shotcrete walls and cast-in-place concrete, making it ideal for typical foundation applications. For demanding applications with significant hydrostatic pressure, GCP recommends PREPRUFE®Plus membranes. For high-risk shotcrete foundations, the PREPRUFE®SCS Plus blindside system is recommended for superior performance.

SWELLPRUFE®membranes are also suitable for vertical post-applied applications.

Product Advantages

- Innovative design and strategically placed bentonite make SWELLPRUFE® trafficable and safe to work upon when wet.
- Features a specially formulated delayed swelling mechanism mitigating premature swelling, typical of bentonite, when exposed to rain and moisture.
- Bentonite encapsulation makes SWELLPRUFE® resilient to freeze/thaw and wet/dry cycles preventing loss (wash off) of bentonite particles.
- Fully bonds to concrete to prevent lateral water migration between the pre-applied membrane and structure, and remains stable under slabs and blind side walls
- Higher coverage and lower weight per roll compared to other bentonite membranes enable ease of handling and application
- Easy to cut and install with kick-out roll design, saving time during application.
- Visual guides for mechanical fixing (over the black color of the SWELLPRUFE® surface) and overlap lay lines ensure quality assurance for overlaps.

System Components

Membrane

- SWELLPRUFE® Membrane - heavy-duty approx. 135 mil composite sheet designed for horizontal and vertical use.

Ancillary Components[1]

- PERM-A-BARRIER® Universal Flashing & Sealant - sealant for penetrations, corners & damage repairs
- BITUTHENE® Liquid Membrane – detailing liquid membrane for piles and under BITUTHENE® sheet over cant strip for post applied application
- PREPRUFE® Liquid Flashing – fully bonded to poured concrete detailing solution if needed by project design
- ADCOR® - hydrophilic waterstop for joints in concrete walls and floors and for enhanced protection of penetrations
- SWELLSEAL® WA Single component gun-grade hydrophilic waterstop.

1. For the Ancillary components, refer to the specific product data sheets to get detailed product information.

Installation

Substrate Preparation

All surfaces: It is essential to create a sound and solid substrate to eliminate movement during the concrete pour. Substrates must be regular and smooth, with no gaps or voids greater than 0.5 in. (12 mm). Grout should be applied as needed around all penetrations, such as utility conduits, for stability.

Horizontal: Suitable horizontal substrate can be but not limited to compacted gravels (not more than ¾"), compacted soil, mud slab, protection slab. The substrate must be free of loose aggregate and sharp protrusions. When installing over earth or crushed stone, ensure substrate is well compacted to avoid displacement of substrate due to traffic or concrete pour. The surface does not need to be dry, but standing water must be removed.

Vertical: Suitable substrates include but is not limited to drainage, timber lagging, sheet piles, concrete, and prepared shotcrete. Use concrete, plywood, insulation, or other approved facing over sheet piling to provide support. Board systems such as timber lagging must be close-butted and not more than 0.5 in. (12 mm) out of alignment. HYDRODUCT® 220 drainage sheet can be used to bridge voids, gaps, and misalignments up to 2 in. (50 mm) prior to SWELLPRUFE® installation.

Membrane Application

Follow SWELLPRUFE® standard detail drawings. For questions reach out to GCP Technical Services.

SWELLPRUFE®has yellow double lines evenly spaced lengthwise along the roll. For pre-applied applications the side with the yellow lines face the future concrete or shotcrete. For post-applied applications the yellow lines face the wall substrate. Mechanical overlap fastening can be done with approved fasteners, staples, or nails.

Optional: Hot air welding can be used to seal the overlap.

Horizontal substrates

- Apply SWELLPRUFE® membrane on approved substrates. Roll out the membrane, ensuring the yellow lines face the concrete pour.
- Overlap succeeding sheets by at least 4 in. (100 mm) along the side, aligning with the second printed layline, and 6" (in). (150 mm) along end laps. Secure the membrane using approved fasteners spaced a maximum of 6" (in). (150 mm) apart.

Vertical substrates (Blind-side)

- SWELLPRUFE® membranes are suitable for vertical application on permanent formwork or adjacent structures. Secure the membrane vertically with approved fasteners appropriate for the substrate, ensuring the yellow overlap lines face the concrete pour. The membrane can be installed in any convenient length. Terminations are required at the top edge of the membrane. Termination can be sealed with minimum 80mil thickness of PERM-A-BARRIER® Universal Flashing & Sealant or a termination bar can be used. termination might be required at the bottom edge of the post applied membrane as well.

Roll ends and cut edges

- Overlap all roll ends and cut edges by a minimum of 6" in. (150 mm). Stagger end laps to avoid thickness build-up. Mechanically attach using staples or pins (suitable fasteners) spaced 6" in. (150 mm) apart. Fasten through the overlap within 3/4" in. (18 mm) of the leading edge using an approved fastener so the membrane lays flat.
- Vertical end laps should be shingled so that the bottom edge of upper sheet is over the lower sheet top edge. Refer to application details for proper installation.

Side laps (4-inch marked selvedge)

- Mechanically attach using staples or pins (suitable fasteners) spaced 6" in. (150 mm) apart. Fasten through the marked selvedge within ¾" in. (18 mm) of the leading edge using an approved fastener so the membrane lays flat.
- Vertical side laps should be shingled so that the bottom edge of upper sheet is over the lower sheet top edge. Refer to application details for proper installation.

Vertical post-applied walls

- SWELLPRUFE® membranes are suitable for vertical post-applied applications, with yellow double lines facing the wall substrate. Secure the membrane vertically with approved fasteners appropriate for the post-applied concrete, not less than ½ in. in length, spaced a maximum of 12 in. apart for the overlap and in the center of the membrane, securing it tightly to the wall. Ensure the yellow overlap lines face the concrete. The membrane can be installed in any convenient length (width or length). Wooden or mechanically attached terminations sealed with minimum 80mil thickness of PERM-A-BARRIER® Universal Flashing & Sealant may be required to maintain the membrane's position.

Protection for post-applied SWELLPRUFE®: It is recommended to protect the membrane from backfill operation within 30 days of membrane application. Suitable protection course can be HYDRODUCT 220 which also provides drainage performance.

Membrane Repair

- Inspect the membrane before installing reinforcement steel, formwork, and final placement of concrete.
- Repair small punctures and slices (0.25 in. / 6 mm or less) by applying PERM-A-BARRIER® Universal Flashing & Sealant centered over the damaged area, with a minimum 3" in. spread to all sides.
- Repair punctures and holes larger than 0.25 in. (6 mm) by applying a patch of SWELLPRUFE® Membrane. Extend the patch 6 in. (150 mm) beyond the damaged area. Apply fasteners at 6 in. (150 mm) spacing within 3/4 in. (18 mm) of the leading edge using an approved fastener so the membrane lays flat. Avoid fish mouths at the overlaps; apply additional fasteners so the membrane lies flat at the seams.

Pouring of Concrete

- Under most climatic conditions, concrete should be poured within 30 days of membrane installation. If the concrete pour is delayed beyond 30 days due to unforeseen circumstances, consult GCP Technical Services for guidance on replacing material or covering.
- Place concrete carefully to avoid damaging the membrane. Never use sharp objects to consolidate the concrete.
- Remove ponding water from the membrane as soon as possible. Extended ponding is not allowed. If the membrane is fully submerged in water for more than 24 hours, consult GCP Technical Services for guidance on replacement or repair before the concrete pour.

Removal of Formwork

- A minimum concrete compressive strength of 3,000 psi (20 N/mm²) and 3–5 days of curing are required before stripping formwork supporting SWELLPRUFE® Membranes. Premature stripping may result in displacement of the membrane and/or spalling of the concrete

Environmental Conditions

Temperature Requirements

- SWELLPRUFE® membrane can be applied at temperatures of 25°F and rising.

Precautions

- Users must read and understand the product label and Safety Data Sheets (SDSs) for each system component before use. Review all precaution statements on product labels and SDSs prior to working with the material. The most current SDSs are available at gcpat.com.

Limitations

- Approved uses include only those specifically detailed in this Product Data Sheet and other current Product Data Sheets available at gcpat.com.
- SWELLPRUFE® Membranes are not intended for any other use. Contact GCP Technical Services where any other use is anticipated or intended.
- SWELLPRUFE® Membranes are designed for in-service (throughout the building life) temperatures between -5°F (-20°C) and 120°F (49°C). SWELLPRUFE membrane remain unaffected during concrete curing, even when temperature temporarily exceed 120°F (49°C).
- SWELLPRUFE® Membranes should not be used with conventional two-sided formwork.
- SWELLPRUFE® Membranes should be installed on an approved substrate, not in standing water or on ice.
- SWELLPRUFE® Membranes are designed to function in groundwater with limited alkali salts and strong acids, with conductivity below 2,500 µS/cm. Submit water samples to the manufacturer for compatibility testing if unsure.

Supply

Dimensions (nominal)	SWELLPRUFE®
Roll Size	33 ft. 4 in. × 3 ft. 3 3/8 in. (110 sq. ft) 10 m × 1 m (9.3 sq. m)
Typical Roll Weight	Approx. 89 lb
Weight/sft	0.81 lb
Minimum side laps	4 in. (100 mm)
Minimum end laps/cut edges	6 in. (150 mm)

PHYSICAL PROPERTIES

Dimensions (nominal)	SWELLPRUFE®	Test Method
Color	Black	
Typical Thickness	135 mil	ASTM D3767
Volumetric expansion, day 1	>50%, 77°F	ASTM D 5229-A Unconfined
Volumetric expansion, day 3	>100%, 77°F	ASTM D 5229-A Unconfined
Ultimate Volumetric expansion	>500%, 77°F	ASTM D 5229-A Unconfined
Lateral Water Migration Resistance	Pass at 231 ft (71 m) of hydrostatic head pressure	ASTM D53851
Resistance to Hydrostatic Head	Pass at 231 ft (71 m) of hydrostatic head pressure	ASTM D53852
Resistance to Hydrostatic Head, Functional Details	Pass at 231 ft (71 m) of hydrostatic head pressure	ASTM D53853
Tensile Strength	400psi	ASTM D412-A

Elongation at break	50%	ASTM D412-A
Crack cycling at -9.4°F (-23°C), 1/8" Movement	Unaffected, Pass	ASTM C1305/ASTM C836
Puncture resistance	>150 lbs	ASTM E154, Section 10
Peel adhesion to poured concrete	5 lb/in. (875 N/m)	ASTM D903
Low Temperature Flexibility	Pass at -10°F	ASTM D1970
Water vapor transmission rate	<0.1 Perm	ASTM E 96, wet and dry cups

Footnotes

1. Lateral water migration resistance is tested by casting concrete against membrane with a hole and subjecting the membrane to hydrostatic head pressure with water.

The test measures the resistance of lateral water migration between the concrete and the membrane.

2. Hydrostatic head tests of SWELLPRUFE ®membranes are performed by casting concrete against the membrane with overlap.

3. Test is performed by casting concrete against the membrane with detail prepared per GCP requirements.

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

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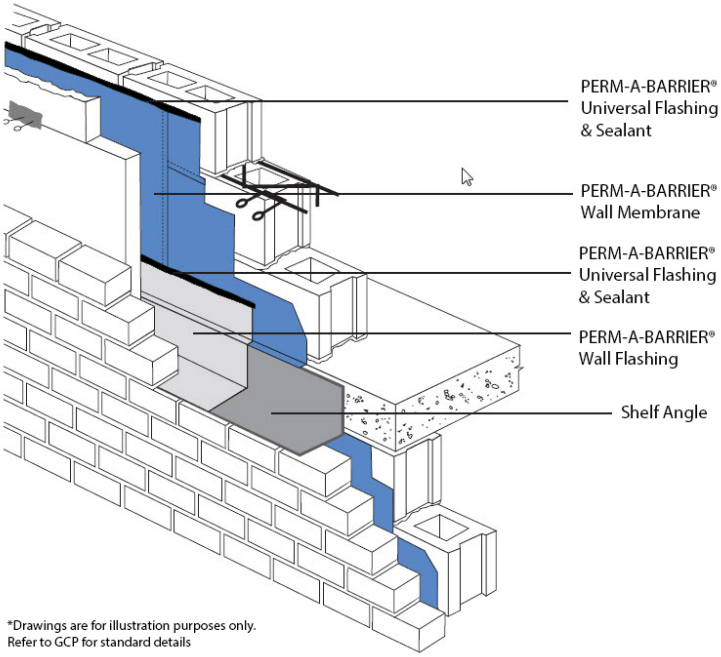
gcpat.com/solutions/products/swellprufe-waterproofing-membrane/swellprufe-data-sheet

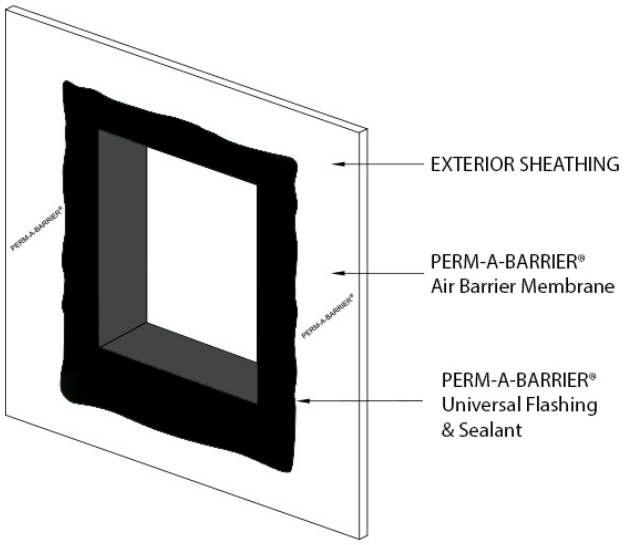
PERM-A-BARRIER® Universal Flashing & Sealant Data Sheet

PAB Universal Flashing & Sealant is designed for a variety of uses with GCP's air and weather barrier systems.

Product Description

PERM-A-BARRIER® Universal Flashing & Sealant is designed for a variety of uses with GCP's air and weather barrier systems.





*Drawings are for illustration purposes only. Refer to GCP for standard details

Uses

PERM-A-BARRIER® Universal Flashing & Sealant is ideally suited for the following uses:

- Sealing of finished terminations, edges of patches and overlaps in detail areas
- Sealing penetrations through GCP air and weather barrier systems, such as plumbing or ductwork
- As a sheathing joint treatment for GCP fluid-applied air and weather barrier membranes
- Provides flashing at window and door rough openings
- Counter flashes waterproofing and air barrier membranes
- For AMMA 714-19, Level 3 compliant Liquid Flashing.

Product Advantages

- Asphalt Compatible
- No primer - fast and easy application with minimum surface preparation
- No staining or residue rundown
- High movement capability
- Adhesion - Strong adhesion to common construction substrates, such as wood, block, concrete, OSB, glass mat sheathing, metal, vinyl and PVC
- Compatibility - Can be applied under all GCP air and weather barrier, and over most of them (see limitations: PERM-A-BARRIER® VPS 30).

Application Procedures

Safety, Storage and Handling Information

Users must read and understand the product label and Safety Data Sheets (SDS's) for each system component before use. All users should acquaint themselves with this information prior to working with the material. Carefully read detailed precaution statements on the product labels and SDS's before use. The most current SDS's can be obtained from the GCP web site at gcpat.com.

PERM-A-BARRIER® Universal Flashing & Sealant is available in 20 fl oz (0.59 L) sausages and has a shelf life of 12 months from the date of manufacture when stored in the original unopened sausages between 40°F (4°C) and 80°F (27°C).

The Volatile Organic Compound (VOC) content is <20 g/L.

Surface Preparation

All surfaces must be clean, dry and free from dirt, grease oil, dust or other contaminants. PAB Universal Flashing & Sealant may be applied at temperatures 20°F (-6.67°C) and above.

Curing Time: PERM-A-BARRIER® Universal Flashing & Sealant is a moisture cure sealant. Ambient air at 50% relative humidity and at 73°F, Silyl
Modified Polyether sealants will generally skin in less than one hour and cure 1/16 of an inch per day. Lower temperature and lower relative humidity will significantly increase the skin time and cure time.

Product Application

Apply PERM-A-BARRIER® Universal Flashing & Sealant with a caulking or sausage gun. When used as a seal for finished terminations, edges of patches and overlaps in detail areas, level the bead with a trowel to a minimum 0.125 in. (3 mm) thickness and 0.5 in. (13 mm) to 1 in. (25 mm) width.

When sealing penetrations, apply a 1 in. (25 mm) fillet to the base of the penetration and overlap onto the GCP air and weather barrier material and penetrant a minimum of 2.5 in. (64 mm).

When used to treat sheathing joints for GCP fluid-applied air and weather barrier membranes, completely fill the sheathing joint with sealant and then install a scratch coat of sealant with a margin trowel or similar onto the face of the sheathing approximately 1 in. (25 mm) on each side of the sheathing joint. Once the sealant is tack free, the fluid applied membrane may be applied, refer to the applicable product data sheets for detailed application instructions.

When used to treat rough opening of window/door penetrations, apply continuously at a minimum thickness of 25 mils, extended a minimum of 3" onto the surrounding wall surface.

Cleaning

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

Limitations

PERM-A-BARRIER® Universal Flashing & Sealant should not be used in the following applications:

- PERM-A-BARRIER® Universal Flashing & Sealant has a maximum in-service temperature of 200° F (93°C).
- As a sealant over PERM-A-BARRIER® VPS 30.
- Not for use with building materials that bleed oils, plasticizers or solvents
- Firestopping applications
- Below grade

Supply

PROPERTY	TYPICAL VALUE
Color	Black
Tack Free Time or skin time	1-2 hours
Cure Time	7-14 days*
Full Adhesion	7-14 days*

Typical cured properties after 7 days cure at 77ºF (25ºC), 50% R.H.
Lower relative humidity and temperature will significantly extend the curing time.

PROPERTY	TYPICAL VALUE	TEST METHOD
Hardness (Shore A)	>35	ASTM C661
Elongation	>600%	ASTM D412
Ultimate Tensile Strength	150 psi	ASTM D412
Modulus @ 100% Elongation	50 psi	ASTM D412
Elastomeric Joint Sealants	Class 50	ASTM C920
Water Vapor Permeance	15 perms	ASTM E 96B1
Water Penetration Around Nails	Pass	ASTM D 1970 section 7.9/AAMA 714-19
Crack Bridging Ability	Category I, Pass,	ASTM C 1305/AAMA 714 section 5.6

Footnotes:

*Curing and full adhesion time will vary depending on temperature and humidity. lower temperature and humidity can significantly increase the curing time.

1. Tested at 10-12mils thick

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gcpat.com/solutions/products/perm-a-barrier-air-barrier-system/perm-a-barrier-Universal-Flashing-Sealant

SAFETY DATA SHEET

1. Identification

Product identifier **SWELLPRUFE**

Other means of identification

Synonyms Pre-applied Waterproofing Membrane

Recommended use Below grade pre-applied 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

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 This product is considered an article and 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 Processing and/or heating of this product might generate fumes that are potentially irritating to the respiratory system and the eye.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Asphalt		8052-42-4	30 - 60
Calcium Carbonate		1317-65-3	10 - 30
Quartz (silica, crystalline)		14808-60-7	10 - 30

Chemical name	Common name and synonyms	CAS number	%
Styrene Butadiene Rubber (Benzene, ethenyl-, polymer with 1,3-butadiene)		9003-55-8	3 - 7
Hydrogen sulfide		7783-06-4	3 - 7
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTHENIC		64742-52-5	1 - 7

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 Respiration of particles is unlikely during normal use. 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 Unlikely route of exposure.
Rinse with water. Get medical attention if irritation develops and persists.

Ingestion Unlikely route of exposure.
Rinse mouth. Drink plenty of water. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed Exposure to fume during installation may produce 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 Use fire-extinguishing media appropriate for surrounding materials.

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 Not applicable.

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 Ensure adequate ventilation. Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up Pick up mechanically; Send for recovery or disposal in suitable receptacles. For waste disposal, see section 13 of the SDS.

Environmental precautions Avoid release to the environment.

7. Handling and storage

Precautions for safe handling Provide adequate ventilation. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities 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
Calcium Carbonate (CAS 1317-65-3)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTHENIC (CAS 64742-52-5)	PEL	5 mg/m3	Mist.
		2000 mg/m3	
		500 ppm	
Quartz (silica, crystalline) (CAS 14808-60-7)	PEL	0.05 mg/m3	Respirable dust.

US. OSHA Table Z-2 Permissible Exposure Limits (PEL) (29 CFR 1910.1000)

Components	Type	Value
Hydrogen sulfide (CAS 7783-06-4)	Ceiling	20 ppm

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

Components	Type	Value	Form
Calcium Carbonate (CAS 1317-65-3)	TWA	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
		50 mppcf	Total dust.
		15 mppcf	Respirable fraction.
Quartz (silica, crystalline) (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.
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTHENIC (CAS 64742-52-5)	TWA	5 mg/m3	Inhalable fraction.
Hydrogen sulfide (CAS 7783-06-4)	STEL	5 ppm	
	TWA	1 ppm	
Quartz (silica, crystalline) (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
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTHENIC (CAS 64742-52-5)	IDLH	2500 mg/m3
Hydrogen sulfide (CAS 7783-06-4)	IDLH	4 %

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

Components	Type	Value
		100 ppm
Quartz (silica, crystalline) (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.
Calcium Carbonate (CAS 1317-65-3)	TWA	5 mg/m3	Respirable.
		10 mg/m3	Total
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTHENIC (CAS 64742-52-5)	Ceiling	1800 mg/m3	
	STEL	10 mg/m3	Mist.
Hydrogen sulfide (CAS 7783-06-4)	Ceiling	15 mg/m3	
		10 ppm	
Quartz (silica, crystalline) (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 protective gloves.

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

Respiratory protection Inhalation of dusts produced during cutting, grinding or sanding of this product may cause irritation of the respiratory tract Dust mask recommended.

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 Roll.

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)	Negligible.
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	None known.
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	Dust may irritate the eyes.
Ingestion	Expected to be a low ingestion hazard.
Symptoms related to the physical, chemical and toxicological characteristics	Processing or heating may cause respiratory irritation and/or coughing.

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
Hydrogen sulfide (CAS 7783-06-4)		
Acute		
Inhalation		
LC50	Mouse	634 ppm, 1 Hours

Skin corrosion/irritation Not applicable.

Serious eye damage/eye irritation Dust in the eyes will cause irritation.

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause skin sensitization.

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

Styrene Butadiene Rubber (Benzene, ethenyl-, polymer with 1,3-butadiene) (CAS 9003-55-8)	3 Not classifiable as to carcinogenicity to humans.
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.
Quartz (silica, crystalline) (CAS 14808-60-7)	1 Carcinogenic to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Quartz (silica, crystalline) (CAS 14808-60-7)	Cancer

US. National Toxicology Program (NTP) Report on Carcinogens

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

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

Specific target organ toxicity - single exposure Not classified.

Specific target organ toxicity - repeated exposure Not classified.

Aspiration hazard Not an aspiration hazard.

Chronic effects Not applicable.

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

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

Hydrogen sulfide (CAS 7783-06-4) 100 LBS

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Quartz (silica, crystalline) (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

Chemical name	CAS number	Reportable quantity (pounds)	Threshold planning quantity (pounds)	Threshold planning quantity, lower value (pounds)	Threshold planning quantity, upper value (pounds)
Hydrogen sulfide	7783-06-4	100	500		

SARA 311/312 Hazardous chemical Yes

Classified hazard categories Flammable (gases, aerosols, liquids, or solids)

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
Hydrogen sulfide	7783-06-4	3 - 7

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)

Hydrogen sulfide (CAS 7783-06-4)

Safe Drinking Water Act (SDWA) Not regulated.

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

Hydrogen sulfide (CAS 7783-06-4)	High priority

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 (silica, crystalline) (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)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
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)	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	04-17-2025
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 02/24/2022 **Version Number 1.0** **Reviewed on 02/24/2022**

1 Identification

Product identifier

Trade name: ***PERM-A-BARRIER® Universal Flashing and Sealant***

SDS ID Number: 747

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
2325 Lakeview Pkwy
Alpharetta GA 30009 USA

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

Information department:

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

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

2 Hazard(s) identification

Classification of the substance or mixture

May cause an allergic skin reaction.

May damage fertility or the unborn child.

Additional information:
SDS's are not required for finished articles. Nevertheless, the following information is provided to assist with safe use.

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

Hazard pictograms

Danger

Hazard statements
May cause an allergic skin reaction.
May damage fertility or the unborn child.
Precautionary statements
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 should not be allowed out of the workplace.
Wear protective gloves/protective clothing/eye protection/face protection.
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.
Wash contaminated clothing before reuse.
Dispose of contents/container in accordance with local/regional/national/international regulations.

Additional information: Avoid breathing dust.

(Cont. on page 2)

Safety Data Sheet

Trade name: *PERM-A-BARRIER® Universal Flashing and Sealant*

(Cont. from page 1)

Hazard description:

NFPA ratings (scale 0 - 4)

Health = 2
Fire = 1
Reactivity = 0

HMIS-ratings (scale 0 - 4)

Health = *2
Flammability = 1
Reactivity = 0

Other hazards Contact with residue from adhesive may cause eye and skin irritation.

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:		
1317-65-3	Limestone	50-<60%
471-34-1	Calcium carbonate	3-<5%
2768-02-7	Trimethoxyvinylsilane	3-<5%
1760-24-3	N-(3-(trimethoxysilyl)propyl)ethylenediamine	0.1-<1%
22673-19-4	Dibutyltin bis(acetylacetonate)	0.1-<1%

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

4 First-aid measures

Description of first aid measures

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

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

After skin contact: If skin irritation occurs, consult a doctor.

After eye contact:

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

After swallowing:

Rinse mouth.

Do NOT induce vomiting.

Information for doctor:

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

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

5 Fire-fighting measures

Special hazards arising from the substance or mixture

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

(Cont. on page 3)

Safety Data Sheet

Trade name: *PERM-A-BARRIER® Universal Flashing and Sealant*

(Cont. from page 2)

Advice for firefighters

Protective equipment: Wear personal protective equipment.

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

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Methods and material for containment and cleaning up: Pick up mechanically.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

Handling:

Precautions for safe handling
Wash thoroughly after handling.

Avoid eye and skin contact with residue from adhesive.

Release liners are slippery. Remove from work area immediately after membrane application.

Membrane is slippery when wet or covered with frost.

Release liners may cause slip and trip hazards.

Do not eat, drink or smoke when using this product.
Wash skin after handling.

For professional use only. Keep out of children's reach.

Information about protection against explosions and fires:

Removal of release liner may generate a static electrical discharge (spark).

Conditions for safe storage, including any incompatibilities

Storage:

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

Further information about storage conditions: Keep receptacle tightly sealed.

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

8 Exposure controls/personal protection

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

Control parameters

Components with limit values that require monitoring at the workplace:	
1317-65-3 Limestone	
TWA (USA)	Short-term value: 10 mg/m³, mg/m3 ppm Long-term value: 10 mg/m³, mg/m3 ppm (Particulate matter no asbestos)
471-34-1 Calcium carbonate	
PEL (USA)	Long-term value: 15* 5** mg/m³ *total dust **respirable fraction
REL (USA)	Long-term value: 10* 5** mg/m³ *total dust **respirable fraction

(Cont. on page 4)

(Cont. from page 3)

TLV (USA)	TLV withdrawn
2768-02-7 Trimethoxyvinylsilane	
EV (Canada)	Short-term value: 60 mg/m³, 10 ppm

Additional information:

The lists that were valid during the creation were used as basis.
Canadian employers must consult the exposure limits in their province.

Exposure controls

Personal protective equipment:

General protective and hygienic measures:

Avoid contact with the eyes and skin.

The usual precautionary measures for handling chemicals should be followed.

Breathing equipment:

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

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

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

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

Eye protection:

Safety glasses with side shield protection.

Body protection:

Use personal protective equipment as required.

Take off contaminated clothing.

9 Physical and chemical properties

Information on basic physical and chemical properties

General Information	
Appearance:	
Form:	Paste
Color:	Black
Odor:	Odorless
Odor threshold:	Not determined.
pH-value (~):	Not applicable.
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.
Flash point:	>140 °C (>284 °F)
Flammability (solid, gaseous):	Not determined.
Ignition temperature:	Undetermined.
Decomposition temperature:	Not determined.
Auto igniting:	Not determined.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.

(Cont. on page 5)

Safety Data Sheet

Trade name: *PERM-A-BARRIER® Universal Flashing and Sealant*

(Cont. from page 4)

Vapor pressure:	Not applicable.
Density: (~)	Not determined.
Vapor density	Not determined.
Solubility in / Miscibility with Water:	Insoluble.
Partition coefficient (n-octanol/water):	Not determined.
Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
Molecular weight	Not determined.
Other information	No further relevant information available.

10 Stability and reactivity

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

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

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

Conditions to avoid No further relevant information available.

Incompatible materials: No further relevant information available.

Hazardous decomposition products: Carbon monoxide and carbon dioxide

11 Toxicological information

Information on toxicological effects
Acute toxicity:

Primary irritant effect:

on the skin: No irritating effect expected

on the eye: No irritating effect expected

inhalation: No irritating effect expected

Sensitization: May cause an allergic skin reaction.

Additional toxicological information:

Carcinogenic categories

IARC (International Agency for Research on Cancer) Human Carcinogenicity: Group 1- Positive, Group 2A- Probable, Group 2B- Possible, Group 3- Not Classifiable		
1333-86-4	Carbon black	2B
14808-60-7	Quartz (SiO2)	1

NTP (National Toxicology Program) K–Known to be carcinogenic, R–May reasonably be anticipated to be carcinogenic		
14808-60-7	Quartz (SiO2)	K

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

(Cont. on page 6)

Safety Data Sheet

Trade name: *PERM-A-BARRIER® Universal Flashing and Sealant*

(Cont. from page 5)

12 Ecological information

Toxicity

Aquatic toxicity: No further relevant information available.

Persistence and degradability No further relevant information available.

Behavior in environmental systems:

Bioaccumulative potential No further relevant information available.

Mobility in soil No further relevant information available.

Additional ecological information:

General notes: Not known to be hazardous to water.

Results of PBT and vPvB assessment

PBT: Not applicable.
vPvB: Not applicable.

Other adverse effects No further relevant information available.

13 Disposal considerations

Disposal methods:

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

Recommendation:

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

Uncleaned packagings:

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

14 Transport information

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

(Cont. on page 7)

Safety Data Sheet

Trade name: *PERM-A-BARRIER® Universal Flashing and Sealant*

(Cont. from page 6)

15 Regulatory information

Other regulations in domestic and foreign countries

SARA (Superfund Amendments and Reauthorization Act)

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

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

SARA Section 312/Tier I & II Hazard Categories:
Health Hazard - Reproductive toxicity
Health Hazard - Respiratory or Skin Sensitization

North America Chemical Inventory Status

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

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

Right to Know Ingredient Disclosure:	
1317-65-3	Limestone
1333-86-4	Carbon black
14808-60-7	Quartz (SiO2)

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

Chemicals known to cause cancer:
Carbon black
Quartz (SiO2)

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

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

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

Carcinogenicity Categories

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

NIOSH-Cancer (National Institute for Occupational Safety and Health)	
1333-86-4	Carbon black
14808-60-7	Quartz (SiO2)

Volatile Organic Compounds (VOC) reported per the Emission Standards. 20 g/L

16 Other information

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

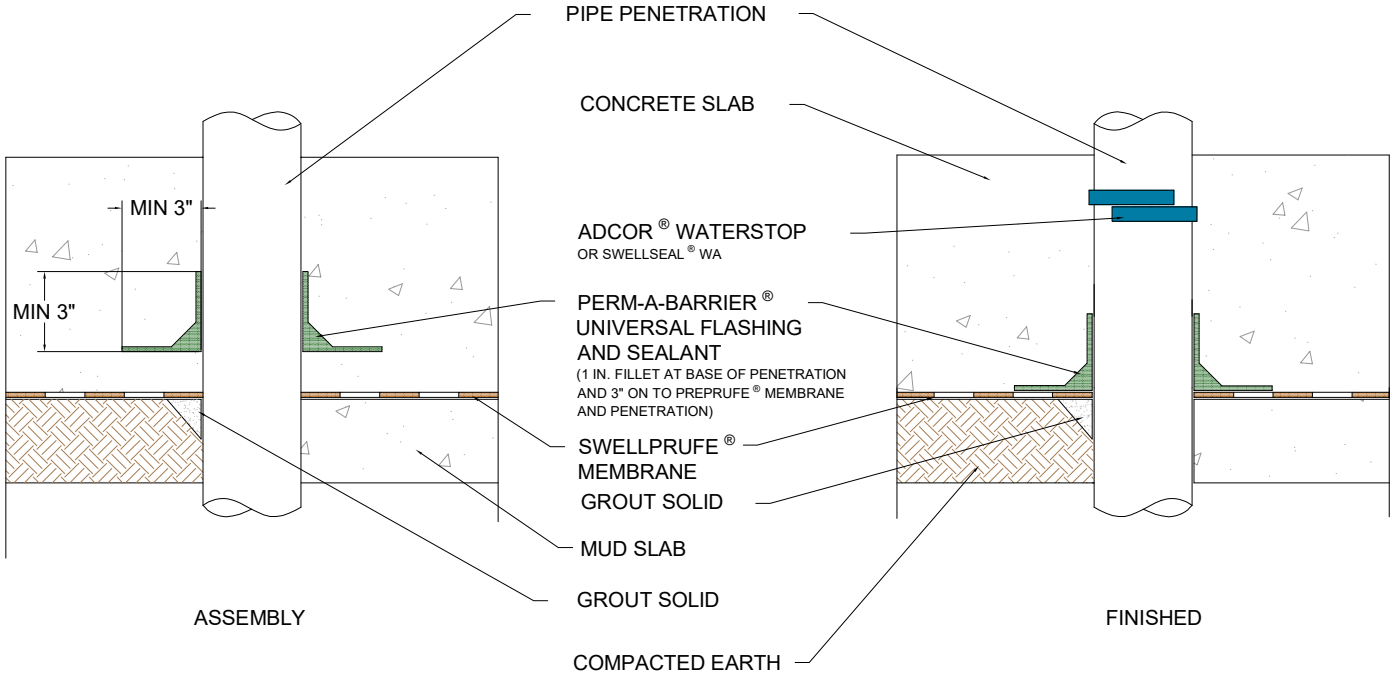
Department issuing SDS:

GCP Applied Technologies
2325 Lakeview Pkwy
Alpharetta GA, 30009 USA
USA: +1-617-876-1400 (24 hours)
+1-800-354-5414

Contact:

The first date of preparation 02/24/2022

Number of revision times and the latest revision date 1.0 / 02/24/2022



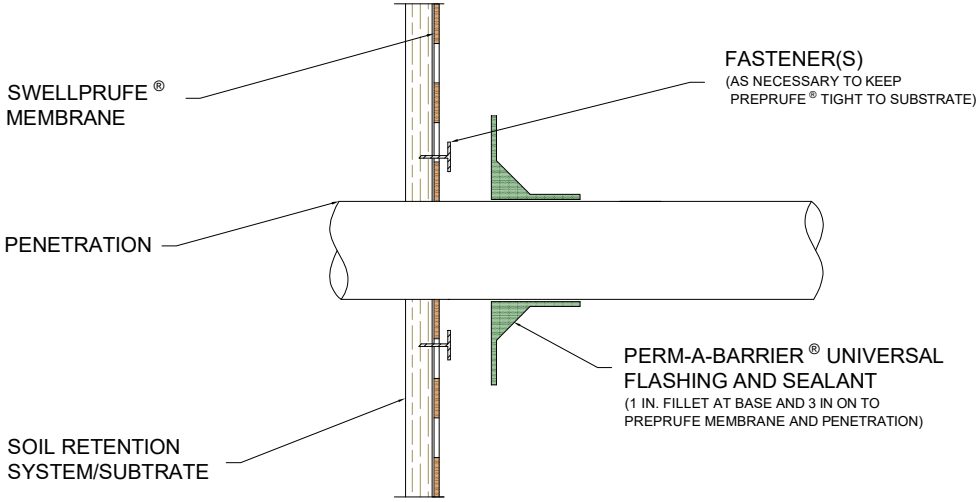
NOTES: ALL PENETRATIONS TO BE GROUTED SOLID IN PLACE.

gcp SAINT-GOBAIN

PIPE PENETRATION

SWELLPRUFE ® WATERPROOFING SYSTEM

DRAWING: SWL-PRF-101
SCALE: NOT TO SCALE
EFFECTIVE DATE: 09/05/2025
SUPERCEDES:



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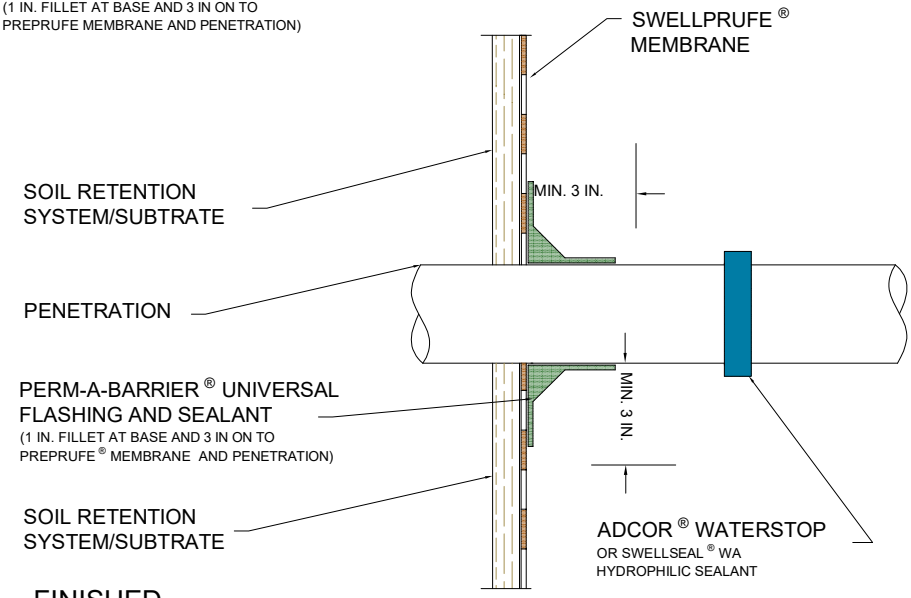


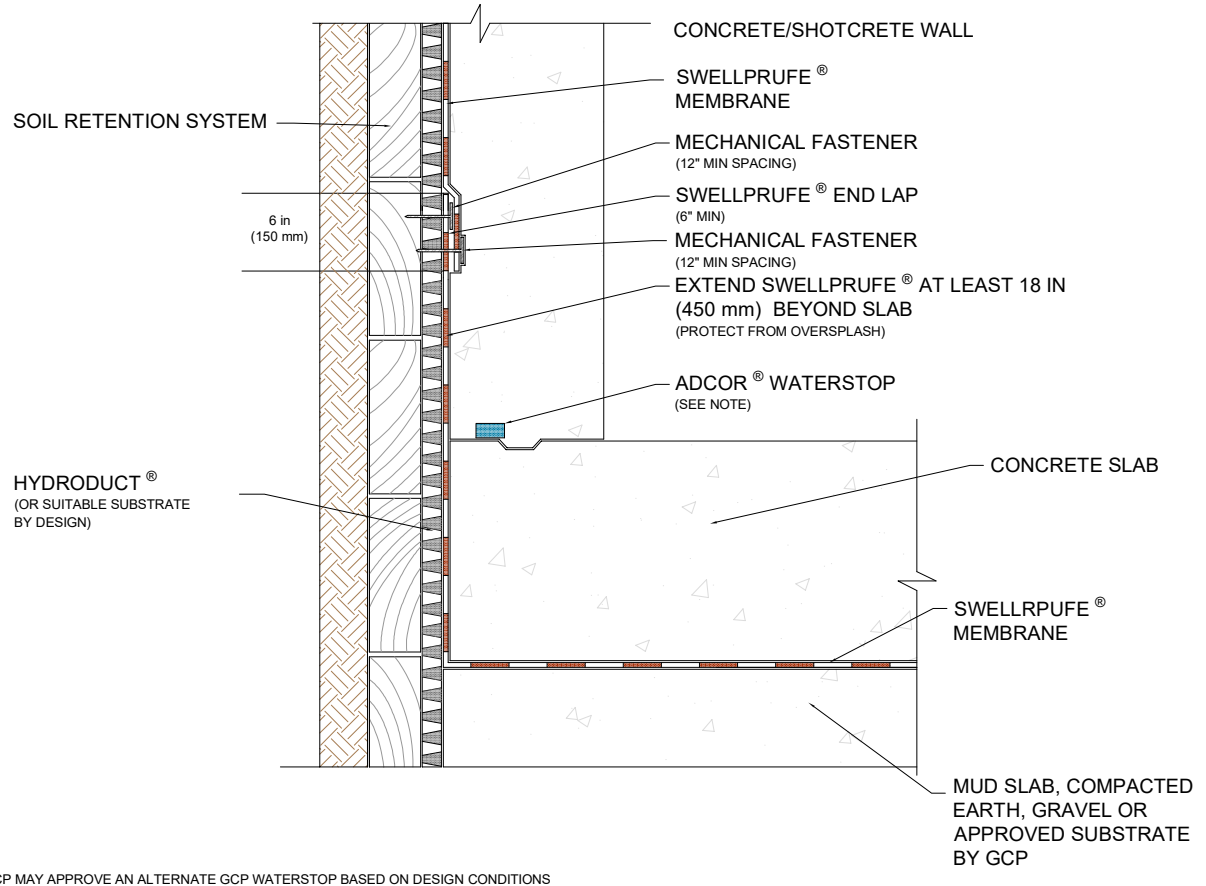
FINISHED

gcp SAINT-GOBAIN

REBAR PENETRATION

SWELLPRUFE ® WATERPROOFING SYSTEM

DRAWING: SWL-PRF-102
SCALE: NOT TO SCALE
EFFECTIVE DATE: 09/05/2025
SUPERCEDES:



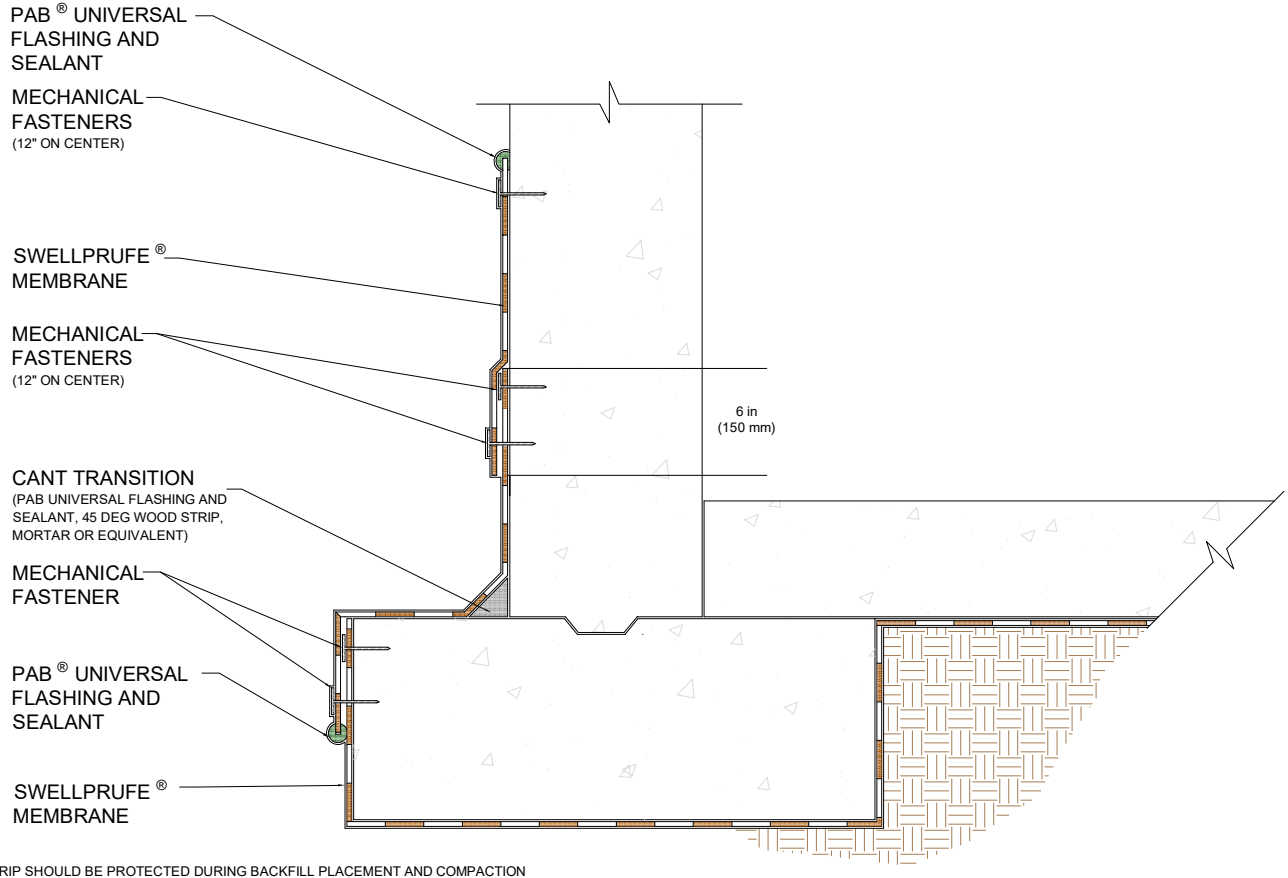
NOTE: GCP MAY APPROVE AN ALTERNATE GCP WATERSTOP BASED ON DESIGN CONDITIONS

gcp SAINT-GOBAIN

BLIND SIDE WALL TO SLAB TIE-IN

SWELLPRUFE ® WATERPROOFING SYSTEM

DRAWING: SWL-PRF-121
SCALE: NOT TO SCALE
DATE: 09/05/2025
SUPERCEDES: N/A



NOTES:

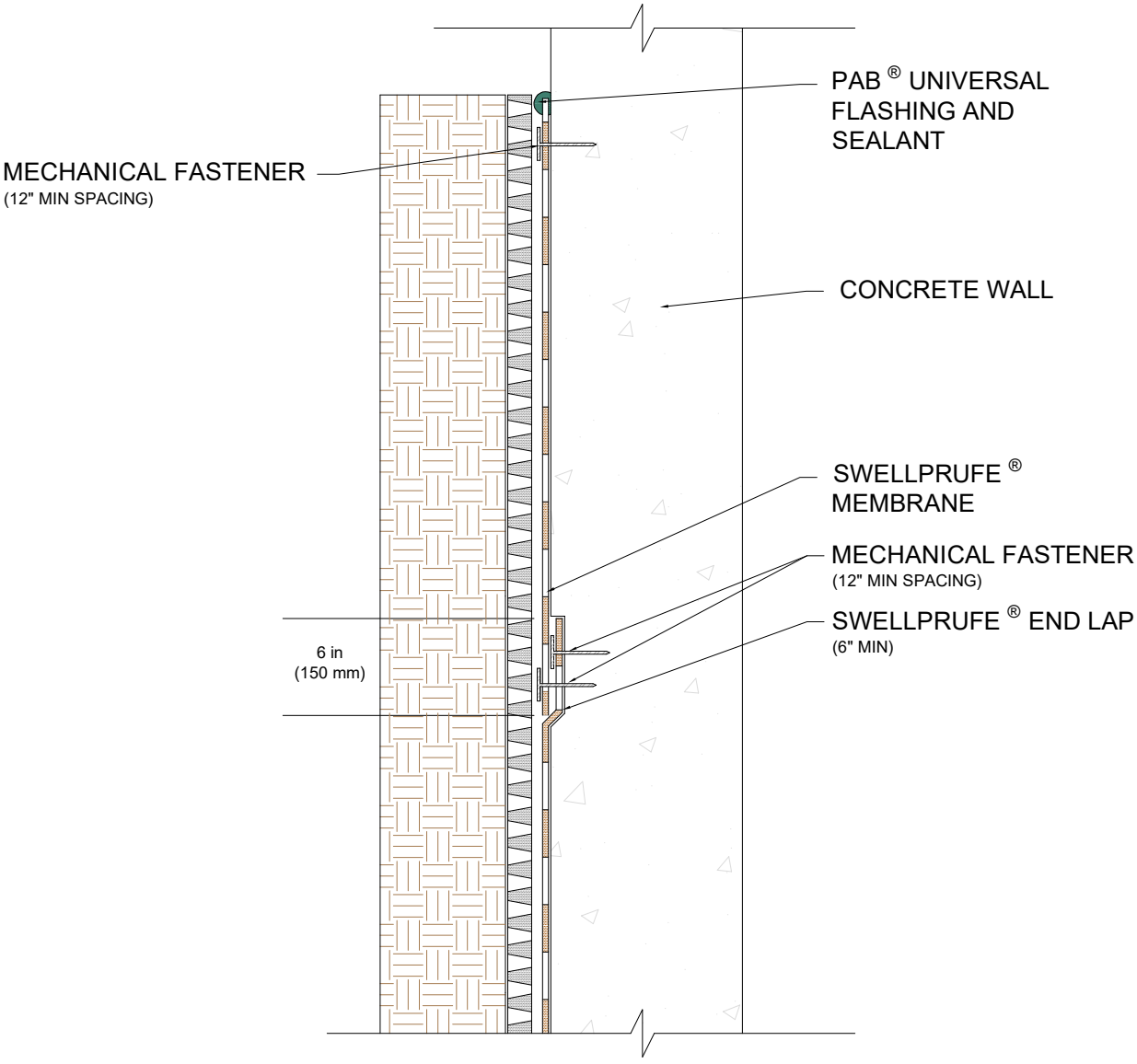
- SWELLPRUFE ® STRIP SHOULD BE PROTECTED DURING BACKFILL PLACEMENT AND COMPACTION
- FOLD SWELLPRUFE ® STRIP BACK ONTO COMPACTED EARTH/GRAVEL FOR TIE-IN WITH SWELLPRUFE ® MEMBRANE UNDERSLAB
- PROTECTION COURSE/DRAINAGE & BACKFILL NOT SHOWN FOR CLARITY
- DETAIL ALSO APPLICABLE TO TIE SWELLPRUFE ® INTO PREVIOUSLY INSTALLED (ADHERED) SWELLPRUFE ®
- GCP MAY REQUIRE AN ALTERNATE GCP WATERSTOP BASED ON DESIGN CONDITIONS
- REBAR OMITTED FOR CLARITY
- GCP MAY APPROVE AN ALTERNATE INJECTABLE GCP WATERSTOP BASED ON DESIGN CONDITIONS
- MECHANICAL FASTENER MINIMUM 3/4" INCH FROM EDGE
- MECHANICAL FASTENER MINIMUM 1/2" IN LENGTH

gcp SAINT-GOBAIN

TRANSITION FROM PRE APPLIED TO POST APPLIED

SWELLPRUFE ® WATERPROOFING SYSTEM

DRAWING: SWL-PRF-122	
SCALE: NOT TO SCALE	
DATE: 09/05/2025	
SUPERCEDES: N/A	



NOTES:

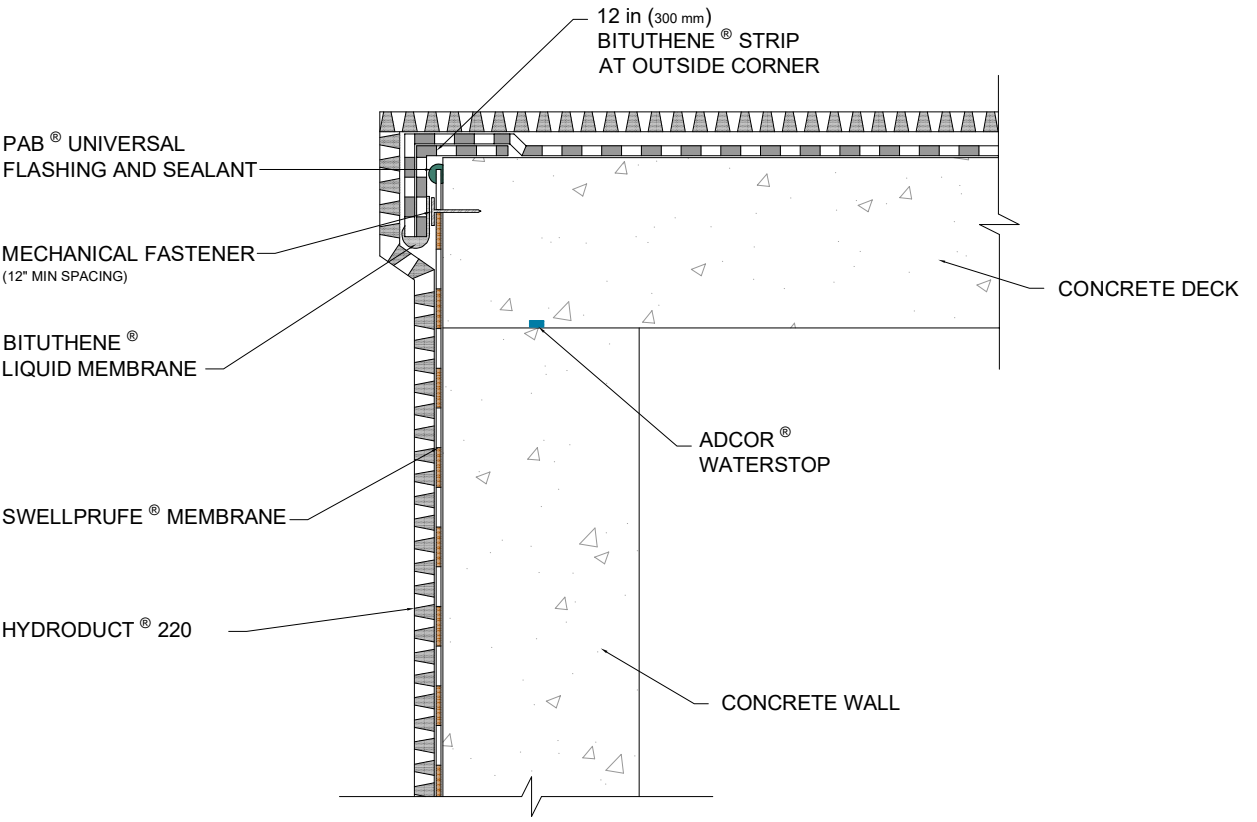
- SWELLPRUFE ® STRIP SHOULD BE PROTECTED DURING BACKFILL PLACEMENT AND COMPACTION
- FOLD SWELLPRUFE ® STRIP BACK ONTO COMPACTED EARTH/GRAVEL FOR TIE-IN WITH SWELLPRUFE ® MEMBRANE UNDERSLAB
- PROTECTION COURSE/DRAINAGE & BACKFILL NOT SHOWN FOR CLARITY
- DETAIL ALSO APPLICABLE TO TIE SWELLPRUFE ® INTO PREVIOUSLY INSTALLED (ADHERED) SWELLPRUFE ®
- GCP MAY REQUIRE AN ALTERNATE GCP WATERSTOP BASED ON DESIGN CONDITIONS
- REBAR OMITTED FOR CLARITY
- GCP MAY APPROVE AN ALTERNATE INJECTABLE GCP WATERSTOP BASED ON DESIGN CONDITIONS

gcp SAINT-GOBAIN

VERTICAL APPLICATION - TYP POST APPLIED

SWELLPRUFE ® WATERPROOFING SYSTEM

DRAWING: SWL-PRF-123
SCALE: NOT TO SCALE
EFFECTIVE DATE: 09/05/2025
SUPERCEDES: N/A



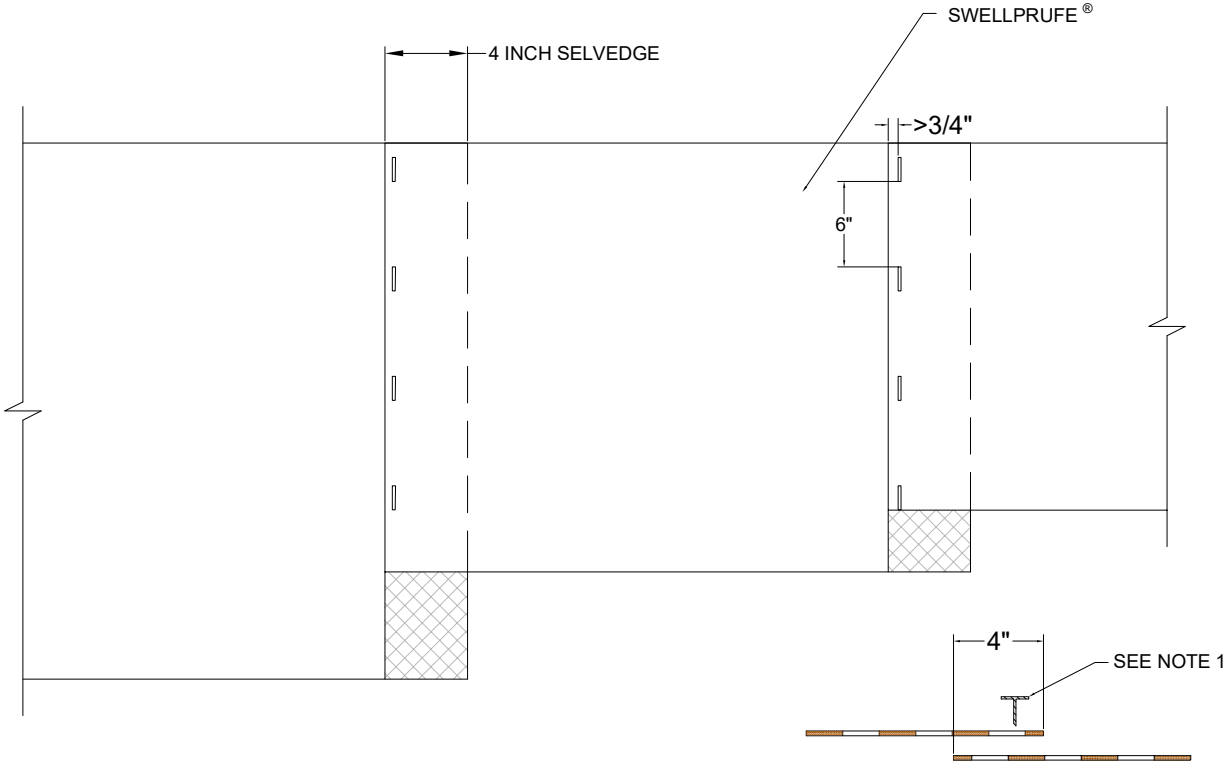
NOTE - GCP MAY REQUIRE AN ALTERNATE GCP WATERSTOP BASED ON DESIGN CONDITIONS

gcp SAINT-GOBAIN

TIE IN TO BITUTHENE DECK

SWELLPRUFE ® WATERPROOFING SYSTEM

DRAWING: SWL-PRF-124
SCALE: NOT TO SCALE
DATE: 09/05/2025
SUPERCEDES: N/A



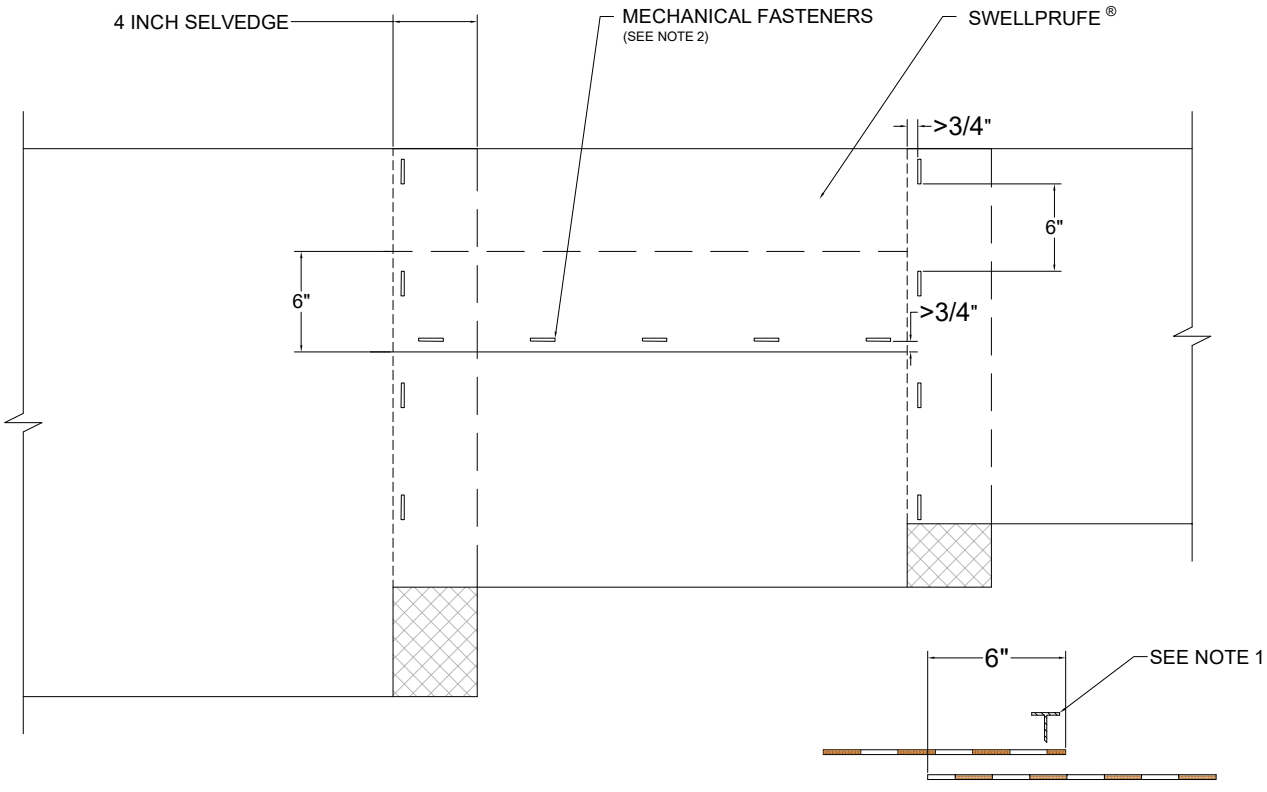
NOTES:
1. MECHANICALLY FASTEN AT 6 INCH CENTERS

gcp SAINT-GOBAIN

SIDE LAP

SWELLPRUFE ® WATERPROOFING SYSTEM

DRAWING: SWL-PRF-141
SCALE: NOT TO SCALE
EFFECTIVE DATE: 09/05/2025
SUPERCEDES:



NOTES:
1. MECHANICALLY FASTEN AT 6 INCH CENTERS
2. MAXIMUM 6 FASTENERS ON END LAP

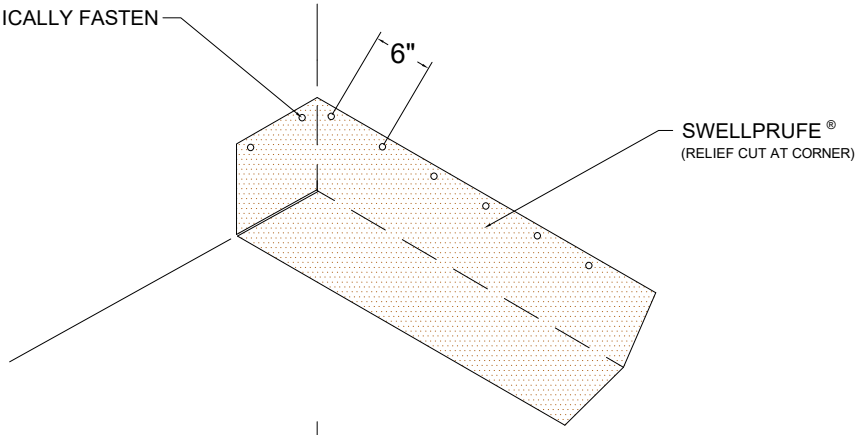
gcp SAINT-GOBAIN

END LAP

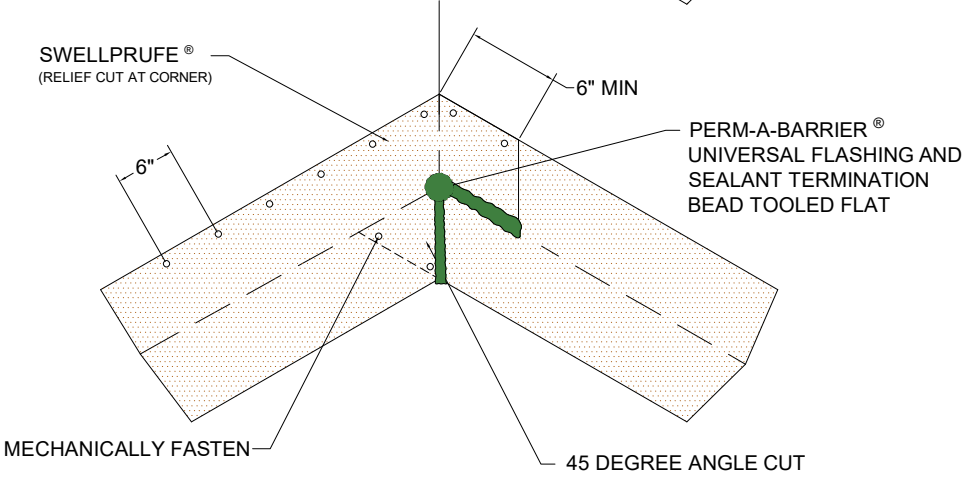
SWELLPRUFE ® WATERPROOFING SYSTEM

DRAWING: SWL-PRF-142
SCALE: NOT TO SCALE
EFFECTIVE DATE: 09/05/2025
SUPERCEDES:

STEP 1



STEP 2



NOTE: MECHANICAL FASTENER MUST BE > .75 INCHES IN DEPTH

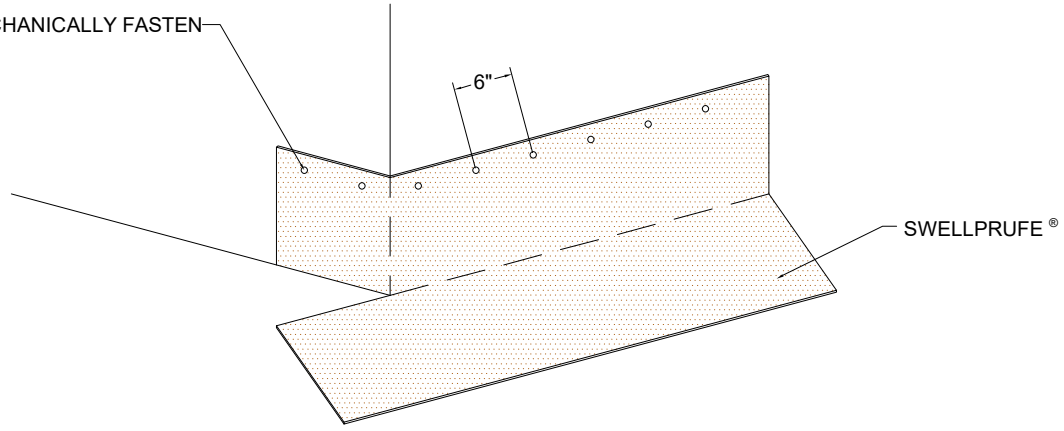
gcp SAINT-GOBAIN

INSIDE CORNER

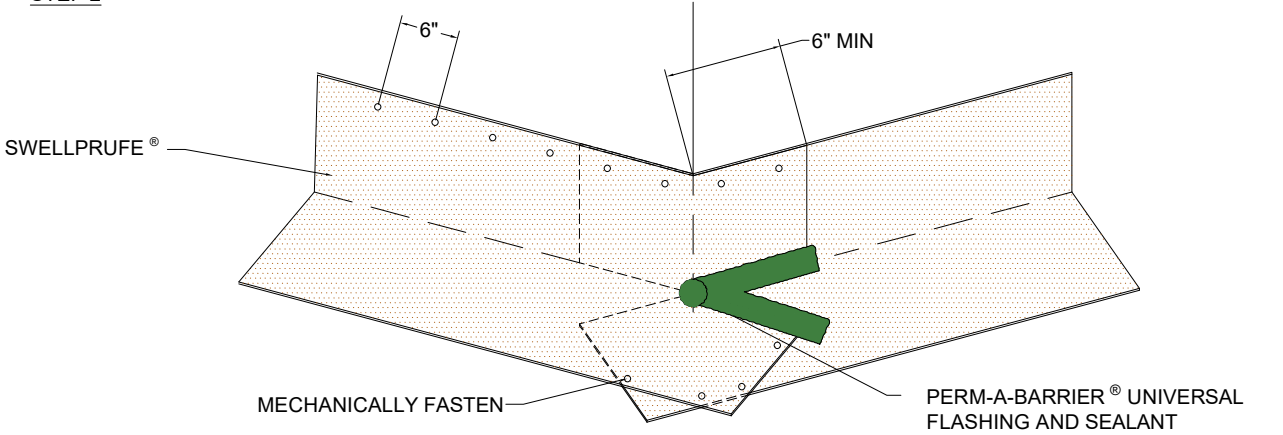
SWELLPRUFE ® WATERPROOFING SYSTEM

DRAWING: SWL-PRF-143
SCALE: NOT TO SCALE
EFFECTIVE DATE: 09/05/2025
SUPERCEDES:

STEP 1



STEP 2



NOTE: MECHANICAL FASTENER MUST BE > .75 INCHES IN DEPTH

gcp SAINT-GOBAIN

OUTSIDE CORNER

SWELLPRUFE ® WATERPROOFING SYSTEM

DRAWING: SWL-PRF-144
SCALE: NOT TO SCALE
EFFECTIVE DATE: 09/05/2025
SUPERCEDES: