

PREPRUFE[®] 800PA Post-Applied Membrane

Self-adhesive PREPRUFE[®] membrane for basement walls in open excavations

Product Description

PREPRUFE[®]800PA is a cold-applied, self-adhesive waterproofing membrane, composed of a reinforced crosslaminated HDPE film, and a synthetic non-bituminous adhesive. PREPRUFE[®]800PA incorporates the PREPRUFE[®]Advanced Bond Technology™.

Product Advantages

- Non-bituminous - synthetic self adhesive membrane based on PREPRUFE[®] technology.
- Adhesion - excellent concrete adhesion at all temperatures.
- Productivity - 4 ft. wide roll for increased worker efficiency.
- Fully bonded - eliminates water migration to prevent water tracking between membrane and substrate.
- Elastomeric - accommodates movements and bridges concrete shrinkage cracks.
- Superior performance - high strength, elongation, tear resistant properties.
- Water and vapour barrier - provides protection for all basements which need to be leak free.

Principal Applications

New and remedial waterproofing for:

- Foundation Walls
- Below grade parking structures
- Tunnels
- Industrial plants
- Radon and methane gas protection
- Protection from water and vapors for critical substructures

Installation

PREPRUFE[®]800PA can be applied to concrete, masonry and wood substrates.

Available in two versions: PREPRUFE[®]800PA application temperature above 40 °F and PREPRUFE[®]800PA LT application temperature between 25 °F and 60 °F. The substrate should be structurally sound and free of voids, spalled areas, loose aggregate and sharp protrusions. Remove surface contaminants such as grease, oil and wax from exposed surfaces. Repair defects such as spalled or poorly consolidated areas. Remove sharp protrusions and form match lines. On masonry surfaces, apply a parge coat to rough concrete block and brick walls or trowel cut mortar joints flush to the face of the concrete blocks.

All surfaces should be dry, free of excess dirt and debris. Concrete must be properly dried before installing PREPRUFE® 800PA (7 days for normal structural concrete and 14 days for lightweight structural concrete).

Before starting the application, cut PREPRUFE®800PA to appropriate lengths, according to the height of the application area. Peel back the first 12 in. of the release liner. Position the membrane and apply the adhesive face from the top to the bottom removing completely the release liner. PREPRUFE®800PA should be rolled onto the prepared substrate to ensure good initial bond and to exclude trapped air. Adjacent rolls are aligned using printed lines overlapped at a 2 in. minimum at side and end laps and well rolled with a firm pressure, using a hand roller to ensure complete adhesion.

Terminate the membrane at grade level. A termination bar may be used to ensure a tight seal. Terminate the membrane at the base of the wall if the bottom of the interior floor slab is at least 6 in. (150 mm) above the footing. Otherwise, use appropriate inside corner detail where the wall and footing meet.

Details

Internal and external corners and edges must be reinforced with strips of 12 in. wide PREPRUFE®800PA. To seal penetrations such as pipes, conduits, etc., use BITUTHENE®Liquid Membrane. Apply it around the penetration with a fillet extending over the membrane and up the penetration a minimum of 2 1/2 in. to provide a watertight seal with PREPRUFE®800PA.

Repairs, Protection & Drainage

- PREPRUFE® 800PA film has an internal grey/black layer. When damage occurs, the grey/black layer is exposed on the white surface. Damaged areas to be repaired with a patch applied to a clean, dry surface extending 6 in. beyond damage in all directions and firmly rolled. Seal all edges of the patch with BITUTHENE® Liquid Membrane.
- The membrane should be protected from damage with HYDRODUCT® or a GCP approved protection course.
- PREPRUFE® 800PA must not be exposed for more than 30 days.

Supply

PREPRUFE® 800PA (4 FT X 115 FT ROLL)	
Weight	77 lbs / roll
Minimum overlap	2 in
Storage	Store upright in dry conditions below 86 °F (+30 °C)

Equipment by others: Lap Roller

ANCILLARY PRODUCTS	
BITUTHENE® Liquid Membrane	1.5 gal (5.7 L) pail or 4 gal (15.1 L) pail
ADCOR® SAS 500S	6 x 16 ft rolls
HYDRODUCT®	See separate Drainage Sheets data sheet

Health and Safety

There is no legal requirement for a SDS (Safety Data Sheet) for PREPRUFE®800 PA. For health and safety questions please contact GCP Applied Technologies Inc. Users must comply with all risk and safety phrases. SDS can be obtained from GCP Applied Technologies.

PREPRUFE® 800 PA

PERFORMANCE REQUIREMENT	TEST METHOD	CURRENT RESULTS
Color		White
Thickness	ASTM D 3767 Proc. A	30 mils (0.8 mm)
Width		47" (120 cm)
Hydrostatic Head Resistance of water @ 200ft of water, [Pass/Fail]	ASTM D 5385	Pass at 230 ft (70 m)
Lap Adhesion @ 41 °F (5 °C), min 15 m	ASTM D 1876 Modified	13.6 pli
Lap Adhesion @ 32 °F (0 °C) min 15 min	ASTM D 1876 Modified	14.8 pli
Lap Adhesion @ -4 °F (-20 °C) min 15 min	ASTM D 1876 Modified	7.06 pli
Lap Adhesion @ 41 °F (5 °C) min 20 h	ASTM D 1876 Modified	16.7 pli
Tensile Strength Membrane, Die C @ 73.4 °F, min (psi)	ASTM D 412 Modified ²	1639.35 psi
Elongation @ 73.4 °F, min	ASTM D 412 Modified ²	176.77%
Crack Cycling @ -9.4 °F, 10 cycles, [Pass/Fail]	ASTM C 1305	Unaffected
Peel Strength @ 73.4 °F, min	ASTM D 903 Modified	8.6 pli
Puncture Resistance Membrane, min	ASTM E 154	2.29 in, 109.7 lbf
Low temperature flexibility	ASTM D1970	Unaffected
Permeance	ASTM E 96 Water Method	0.00 Perms

ASTM D 1876 Modified - The test is conducted 15 minutes after the lap is formed or per manufacturer's instructions and run at a rate of 50 mm (2 in.) per minute for 2 inch wide samples

ASTM D 882 - sample width 1 inch; 4 inch sample length; 2 inch grip to grip separation; rate 20 in/min

ASTM D 903 Modified - dry 7 days cured concrete, 2 hours primer drying, 90 degree peel, 2 inch samples, rate 2 inch/min, 15 min wet-in, different primers & different temperature

ASTM D 882 Modified - rate 2 inch/min

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