

Preprufe® 800PA

Self-adhesive Preprufe membrane for basement walls in open excavations

Description

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

Principal Applications

New and remedial waterproofing for:

- Basement walls of all basement grades to BS 8102: 2009
- Below-ground car parks
- Underground RC reservoirs and tanks
- Industrial plants
- Radon and methane gas protection
- Protection from water, damp and gas of critical substructures

Installation

Preprufe 800PA can be applied to cementitious and metal substrates.

Available in two versions: Preprufe 800PA application temperature between +5 °C and +40 °C, Preprufe 800PA LT application temperature between -5 °C and + 25 °C. The substrate should be clean, free of grease, release agents and protrusions or voids. Irregularities greater than 3 mm should be removed or filled with GCP Betec® NSM range of products.

All surfaces should be primed with one coat of GCP's solvent based quick drying, damp and green concrete tolerant primer Preprufe® SC1. Primer colour is green to ensure proper coverage, to aid identification and to avoid substitution. See separate data sheet.

Advantages

- **Non-bituminous** – synthetic self adhesive membrane based on Preprufe technology.
- **Adhesion** – excellent concrete adhesion at all temperatures.
- **Productivity** – 1.2 metre 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.
- **Gas resistant** – methane, carbon dioxide and radon gas protection in excess of the standard membrane requirements in BRE Reports 211 (radon) and 212 (methane and carbon dioxide).

Before starting the application, cut Preprufe 800PA to length, according to the height of the application area. Peel back the first 30 cm of the release liner. Position the membrane and apply the adhesive face from top to the bottom removing completely the release liner. Preprufe 800PA should be brushed or rolled onto the primed surface to ensure good initial bond and to exclude trapped air. Adjacent rolls are aligned using printed lines overlapped 50 mm minimum at side and ends and well rolled with a firm pressure, using a lap roller to ensure complete adhesion and continuity between the layers.

On high walls it may be necessary to batten fix the membrane to prevent slippage. Remove the batten after backfilling and before the positioning of any flashing (if needed). For other substrates such as plastic or wood consult GCP Applied Technologies.

Details

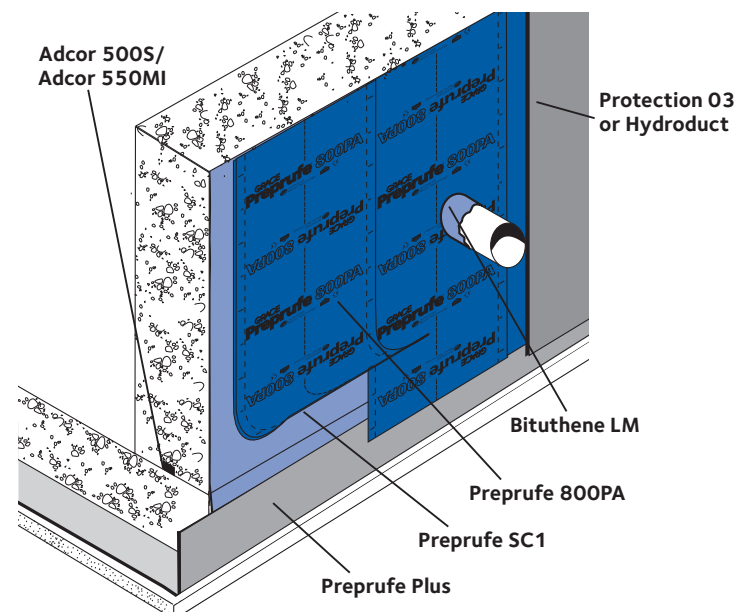
Internal and external corners and edges must be reinforced with pre-cut strips of 300 mm wide Preprufe 800PA. To seal penetrations such as service pipes, lightning conductors, etc., use Bituthene® LM around the penetration with a fillet to provide a watertight seal with Preprufe 800PA membrane.

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 an oversize patch applied to a clean, dry surface extending 100 mm beyond damage and firmly rolled.

Protect Preprufe 800PA membrane immediately after application to avoid damage from other trades, construction materials or backfill, using only GCP Protection O3 boards.

Preprufe 800PA must not be exposed for more than 30 days. If the area around the substructure can be drained to a low level outlet then GCP recommends the Hydroduct range of drainage membranes.



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

Supply

Preprufe 800PA	1.2 m x 35 m roll
Weight	35 kg / roll
Minimum overlap	50 mm
Storage	Store upright in dry conditions below +30 °C
Preprufe SC1	5 and 20 litre can
Coverage	10 – 12 sq m per litre depending upon method of application, surface porosity and ambient temperature
Ancillary Products	
Bituthene LM	5.7 litre packs
Protection O3 board	3 mm x 0.9 m x 2.03 m (± 6%)
Adcor 500S	6 x 5 m rolls
Hydroduct	See separate Drainage Sheets data sheet

Equipment by Others: Lap Roller

Note: As per specification and/or local site requirements a low VOC, water-based primer Bituthene Primer W2 can be used as an alternative to Preprufe SC1 primer

Physical Properties

	Typical Value	Test Method
Peel Strength at 23 °C, min	3.2 N/mm	ASTM D 903 Modified3
Radon Diffusion Coefficient	2.1 x 10 ⁻¹² m ² /s	CTU K124/02/95
Methane permeability	111.0 ml/m ² /d/atm	ISO 15105-1

Declared values according to EN 13967

Property	Declared Value		Test Method
Preprufe	800PA	800PA LT	
Visible defects – MDV	None	None	EN 1850-2
Straightness – MDV	Pass	Pass	EN 1848-2
Length (m) – MDV	35.10 ± 0.25	35.10 ± 0.25	EN 1848-2
Thickness (mm) – MDV	0.8 ± 0.07	0.8 ± 0.07	EN 1849-2
Width Carrier Sheet (m) – MDV	1.206 ± 0.006	1.206 ± 0.006	EN 1848-2
Mass per unit area (g/m ²) – MDV	735 ± 50	735 ± 50	EN 1849-2
Water tightness to liquid water (at 60 kPa)	Pass	Pass	EN 1928
Resistance to impact (Al-board (mm) – MLV)	≥ 150	≥ 150	EN 12691
Resistance to tearing (Nail Shank) – unreinforced sheets (N) – MLV	≥ 155	≥ 155	EN 12310-1
Joint strength (N/50mm) – MLV	≥ 250	≥ 220	EN 12317-2
Water vapour transmission (μ= sD/d) – MDV	380.000 ± 30%	380.000 ± 30%	EN 1931 Method B

Footnotes: 1. Longitudinal – related to the roll direction 2. Transversal – related to the roll direction 3. MDV: Manufacturer Declared Value 4. MLV: Manufactured Limiting Value All declared values shown in this data sheet are based on test results determined under laboratory conditions and with the product sample taken directly from stock in its original packing without any alteration or modification of its component parts.

Storage & Transportation


The rolls of Preprufe 800PA are to be transported only in boxes packed upright on shrink-wrapped pallets and must be stored upright on site. The stacking of membrane is not allowed. Before installation, the membrane has to be protected from direct sunlight and moisture. Punctual or lineal loading and exposure to solvent vapour shall be avoided.

Specification Clause

Refer to clause J40 297.

Health and Safety

There is no legal requirement for a Safety Data Sheet for Preprufe 800PA. For health and safety questions on this product please contact GCP Applied Technologies. For Bituthene Primer W2, Preprufe SC1 primer and Bituthene LM read the product label and Safety Data Sheet (SDS) before use. Users must comply with all risk and safety phrases. SDS's can be obtained from GCP Applied Technologies or from our web site at gcpat.com.

 0836	GCP Applied Technologies (UK) Limited Ipswich Road, Slough, Berkshire SL1 4EQ United Kingdom 10 06/F017	
	EN 13967 Preprufe® 800PA Flexible Sheets for Waterproofing, Type T, Reaction to fire: E, Watertightness: Pass at 60 kPa	

Declared values according to EN 13967

Property	Declared Value		Test Method
Preprufe	800PA	800PA LT	
Durability of water tightness against ageing/ degradation (at 60 kPa)	Pass	Pass	EN 1296 EN 1928 Method B
Durability of water tightness against chemicals (at 60 kPa)	Pass	Pass	EN 1847 Method B EN 1928 Method B
Compatibility with bitumen	Pass	Pass	EN 1548
Resistance to static loading	≥ 20 – Pass	≥ 20 – Pass	EN 12730
Tensile properties – unreinforced sheets (N/50mm) – MLV	Long ¹ ≥ 430 Trans ² ≥ 430	Long ¹ ≥ 430 Trans ² ≥ 430	EN 12311-2 Method A
Tensile properties – unreinforced sheets (Elongation %) – MLV	Long ¹ ≥ 280 Trans ² ≥ 280	Long ¹ ≥ 180 Trans ² ≥ 180	EN 12311-2 Method A
Reaction to fire (Class; test conditions)	E	E	EN 13501-1

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