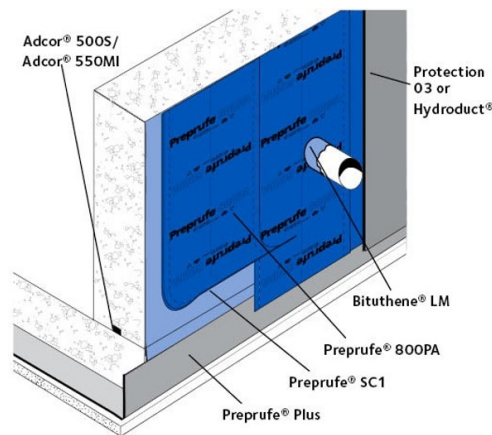


PREPRUFE[®] 800PA/ 800PA LT Membrane (UK/IE Version)

An advanced, self-adhesive PREPRUFE[®] Membrane for protection of below ground structures

Product Description

GCP Applied Technologies (“GCP”) PREPRUFE[®] 800PA is a cold-applied, self-adhesive waterproofing membrane, composed of a cross-laminated HDPE film, and a synthetic non-bituminous adhesive. PREPRUFE[®] 800PA incorporates the PREPRUFE[®] Advanced Bond Technology™.



Drawings are for illustrative purposes only.
Please refer to gcpat.uk for specific application details

Principal Applications

Designed for new and remedial waterproofing for:

- Basement walls of all basement grades to BS 8102: 2022
- Below-ground car parks
- Underground RC reservoirs and tanks Industrial plants
- Radon, methane and carbon dioxide gas protection
- Protection from water, damp and gas of critical substructures

Product Advantages

- Non-bituminous - synthetic self adhesive membrane based on PREPRUFE® technology.
- Adhesion - excellent concrete adhesion at all temperatures.
- Productivity - 1.2m 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 - contributes to methane, carbon dioxide and radon gas protection according to BS 8485, BRE Reports 211 (radon) and 212 (methane and carbon dioxide). Independent test results available upon request.

This document is applicable to projects and applications in the UK only. Please refer to the local website for further information at gcpat.uk, or contact your GCP representative.

System Components

Membranes:

- PREPRUFE® 800PA Membrane for application to surfaces at ambient temperatures of 5 °C or above
- PREPRUFE® 800PA Low Temperature (LT) Membrane for low temperature applications when surface and ambient temperatures are between -5 °C and 20 °C

Ancillary Components: (the most current product information and detailed installations instructions for these products can be found at gcpat.uk or by contacting your local GCP representative.

- PREPRUFE® 800PA TAPE – detailing tape supplied in 200mm x 35m rolls for repair patching of 800PA membrane at localized damages and tie-bar holes.
- PREPRUFE® SC1 Primer - PREPRUFE® SC1 is a green coloured, non-bituminous, solvent based primer, which provides excellent good initial adhesion of PREPRUFE® 800PA Membrane to the substrate.
- PREPRUFE® Primer W2 - Low VOC water based primer that can be used per specification as an alternate to PREPRUFE® SC1 Primer
- BITUTHENE® LM (E) - Two component, elastomeric, liquid applied detailing compound
- Protection O3 Board - A robust 3mm thick board providing protection against damage of PREPRUFE® 800PA membrane from backfilling
- ADCOR® 500S - A large sectioned, conformable, hydrophilic waterstop for preventing water entry through joints in concrete sub-structure
- BETEC® NSM- A range of GCP high performance mortars specifically designed for patching, repair, and leveling of concrete surfaces
- HYDRODUCT® Drainage Sheets - High impact and creep resistant geo-composite and protection sheet designed as alternative to traditional aggregate drainage

Limitations of Use

- Approved uses of PREPRUFE® Membranes only include those uses specifically detailed in this product data sheet and other current product data sheets that can be found at gcpat.uk.
- PREPRUFE® 800PA Membranes are not intended for any other use. Contact GCP Technical Services where any other use is anticipated or intended.
- PREPRUFE® 800PA Membranes are designed where in-service temperatures will not exceed 54 °C.
- Do not apply PREPRUFE® 800PA Membranes over insulation or lightweight insulating concrete.

Note that because of local regulations, test standards and customs, product literature and offerings may be different in various locations. If you have any questions or comments, please contact your local customer service at info-gb@gcpat.com or +44 (0) 1480 478421.

Safety and Handling Information

Users must read and understand the product label and safety data sheet (SDS) for each system component. All users should acquaint themselves with this information prior to working with the products and follow the precautionary statements. SDSs can be obtained by contacting your local GCP representative or office, by calling GCP toll free at +44 (0) 1480 478421 and in some cases from our web site at gcpat.uk.

Transportation and Storage

- All products must be handled and stored consistent with PREPRUFE® 800PA methods statement
- PREPRUFE® 800PA membrane Rolls of PREPRUFE® 800PA must be stored upright at all times
- The stacking of membrane is not allowed. Before installation, the membrane has to be protected from direct sunlight and moisture
- Observe one-year shelf life
- Store in dry conditions below 30°C
- Store off ground, under tarps or otherwise protected from rain and ground moisture.

Installation

Technical Support, Details and Technical Letters

The most up to date detail drawings and technical letters are available at gcpat.uk. For complete application instructions, please refer to the current GCP Applied Technologies Contractor Handbook and Literature on (www.gcpat.uk). Documents in hardcopy as well as information found on websites other than www.gcpat.uk may be out of date or in error. Before using this product, it is important that information be confirmed by accessing www.gcpat.uk and reviewing the most recent product information, including without limitation product data sheets and contractor manuals, technical bulletins, detail drawings and detailing recommendations. Please review all materials prior to installation of PREPRUFE® 800PA and 800PA Low Temperature Membranes. For technical assistance with detailing and problem solving please contact your local GCP representative or office, by calling GCP at +44 (0) 1480 478421.

Surface Preparation

PREPRUFE® 800PA membrane can be applied to cementitious and metal substrates. 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 must be primed with one coat of GCP's solvent based quick drying, damp and green concrete tolerant primer. PREPRUFE® SC1 Primer is coloured green to ensure a uniform consistent coverage is achieved and to aid identification to confirm no substitute primer is being used. PREPRUFE® SC1 Primer coverage varies between 10-12m² / litre subject to surface porosity and ambient temperature. See separate data sheet.

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.

Membrane application:

Prior to commencing application, cut PREPRUFE® 800PA membrane to length, according to the height of the application area. Peel back the first 300 mm of the release liner. Position the membrane and apply the adhesive face from top to the bottom gradually removing the release liner. PREPRUFE® 800PA membrane 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 overlapped lines spaced 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 top edge of membrane to prevent slippage. Once backfilled, remove batten before the positioning of any flashing (if needed). For other substrates such as plastic or wood consult GCP Applied Technologies for guidance.

Detailing:

Internal and external corners and edges must be reinforced with pre-cut strips of 300 mm wide PREPRUFE® 800PA membrane. All penetrations such as service pipes, lightning conductors and rods must be sealed with BITUTHENE® LM around the penetration with a fillet to provide a watertight seal with PREPRUFE® 800PA membrane. All penetrations must be detailed in line with GCP drawings. Consult GCP for guidance.

Repairs, Protection & Drainage

PREPRUFE® 800PA membrane 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 of membrane, or cut patch of tape, 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 following trades, construction materials or backfill, using either GCP protection boards or HYDRODUCT® drainage sheets (refer to separate data sheets).

PREPRUFE® 800PA membrane must not be UV 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.

Specification Clause

Refer to clause J40 180/190.

Supply	
MEMBRANE PREPRUFE® 800PA/800PA LT	
Roll Dimensions	1.2 m x 35 m roll
Weight	35 kg / roll
Ancillary Products	
PREPRUFE® SC1 Primer	5 and 20 litre can (coverage 10-12 m ² / litre)
PREPRUFE® Primer W2	5 liter can (coverage 9-11 m ² /litre)
PREPRUFE® 800PA Tape	200mm x 35m roll
BITUTHENE® LM (E)	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® 200/220 drainage sheet	1.25 m x 32 m long roll x 12 mm thick (40 sq m)

Physical Properties:

PREPRUFE® 800PA/ PREPRUFE® 800PA Low Temperature (LT)

Property	Typical Value	Standard
Colour	light grey	NA
Peel Strength at 23 °C, min	3.2 N/mm	ASTM D 903 ¹

¹ The test is conducted 15 minutes after membrane application and run at a rate of 2 in. (50 mm) per minute at 72 °F (22 °C)

Declared Values according to EN 13967

Property	Declared Value PREPRUFE® 800PA	Declared Value PREPRUFE® 800PA Low Temperature (LT)	Test Method
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 60kPa	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 ($\mu=sD/d$) - MDV	380.000+/- 30%	380.000+/- 30%	EN 1931 Method B
Durability of water tightness against ageing/degradation (at 60kPa)	Pass	Pass	EN 1296 EN 1928 Method B
Durability of water tightness against chemicals (at 60kPa)	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 ≥ 180 Trans ² ≥ 180	Long ¹ ≥ 180 Trans ² ≥ 180	EN 12311-2 Method A
Reaction to Fire (class; Test Conditions)	E	E	EN 13501-1

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 5. NPD: No Performance Declared.

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 part



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gcpat.uk/solutions/products/preprufe-pre-applied-waterproofing-solutions/preprufe-800pa-800pa-lt-membrane