

Bituthene® GP

Self-adhesive rubber bitumen/HDPE waterproof membrane for low risk applications.

Description

Bituthene® GP is a combination of a high density polyethylene film and a self-adhesive rubber/bitumen compound. It is supplied in rolls 1 mm thick overall, 1 m wide and 25 m long (25 sq metres).

Installation

The product is for low-risk applications only and is capable of resisting a hydrostatic head up to 1m. All concrete and masonry surfaces to which the membrane is to be applied must have a smooth finish. Surfaces should be clean, dry free of voids and any sharp protrusions. Masonry surfaces must be rendered to provide an even flush surface, if not rendered then all brick or blockwork must be flush pointed. For higher risk applications, we would recommend the use of Bituthene 4000, Bituthene 8000 or Preprufe 800PA.

Minimum ambient application temperature +5°C. Ensure that all surfaces are clean, dry and free from ice/frost. Surfaces should be smooth, free from voids and protrusions, and any imperfections should be made good using Betec NSM mortar.

All surfaces except those below ground bearing slabs should be primed with one coat of Primer B1 applied by brush or roller.

The drive for continual improvements in performance may result in product modifications. Your Grace representative will be able to provide up-to-date advice.

Bituthene GP shall be laid by peeling back the protective release paper and applying the adhesive face onto the prepared surface.

Advantages

- **Waterproof** - capable of resisting a hydrostatic head when fully supported (up to 1 metre of water).
- **Cold applied** - no heating, self-adhesive overlaps ensure continuity.
- **Flexible** - accommodates minor settlement and shrinkage movement.
- **Controlled thickness** - factory-made sheet ensures constant, non-variable site application.
- **Rubber/bitumen** - flexibility and resistance to most dilute acids and alkalis.
- **Lighter roll** - for ease of application.
- **Longer roll** - for less storage.

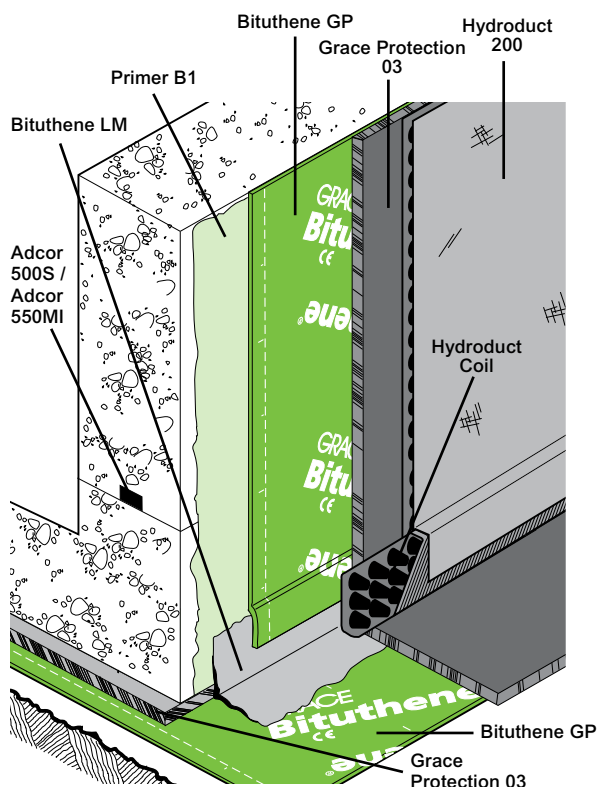
Bituthene LM to be applied at necessary internal and external corners, penetrations etc. prior to applying the overall membrane.

Bituthene GP should be brushed onto the surface to ensure good initial bond and exclude air. Adjacent rolls are 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.

Repairs, Protection & Drainage

- Damaged areas to be repaired with an oversize patch applied to a clean dry surface extending 100 mm beyond damage and firmly rolled.
- The membrane should be protected against damage using Grace Protection 03 boards bonded to the membrane using Bitustik 4000 double sided tape or Pak Adhesive and firmly rolled.
- If the area around the substructure can be drained to a low level outlet then Grace 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 Grace Technical Services

Supply

Bituthene® GP	1 m x 25 m roll (25 sq m) Weight 30 kg
Storage	Store upright in dry conditions below +30°C
Primer B1	5 and 25 litre drums
Coverage	7-10 sq m per litre depending upon method of application, surface porosity and ambient temperature.
Ancillary Products	
Bituthene® LM	5.7 litre packs
Grace Protection 03	3 mm x 0.9 m x 2.03 m (± 6%)

Equipment by Others: Soft brush, stanley knife; brush or roller for priming. Stiff broom and airline for cleaning surface.

Health and Safety

There is no legal requirement for a Material Safety Data Sheet for Bituthene GP, Grace Protection Boards, Hydroduct or waterstops. Refer to product carton for additional safety information. For health and safety questions on these products please contact Grace Construction Products Limited.

For Primer B1, Bituthene LM and Pak Adhesive read the product label and Material Safety Data Sheet (MSDS) before use. Users must comply with all risk and safety phrases. MSDS's can be obtained from Grace Construction Products.

Physical Properties

Property	Typical Value	Test Method
Tear Resistance	Long 91.6N Trans 89.6N	MOAT 27:5.4.1
Peel Strength	105.4N	MOAT 27:5.1.3
Tensile Strength of joints	130.6N	MOAT 27:5.2.2
Moisture Vapour Permeability	0.39 g/m ² /24 hours	BS 3177: 1959 (75% RH/25°C)
Resistance to hydrostatic head	< 1m of water	ASTM D5385

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.

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