



CONSTRUCTION CHEMISTRY

# Expanproof GP\*

## Cold applied bituminous waterproofing membrane

### Uses

To provide a continuously bonded waterproof membrane for building and civil engineering structures.

### Advantages

- Cold applied.
- Fast application.
- Uniform thickness of polymer bitumen membrane.
- Good adhesion to primed concrete substrates.
- Produces a continuous waterproof membrane system.

### Description

Expanproof GP is a cold applied self-adhesive sheet membrane comprising of a polymer modified bitumen layer internally reinforced with polyester, bonded on to an outer surface of cross laminated polyethylene film, available in 1.50 & 2.00 mm thickness.

The polymer bitumen adhesive layer is protected on the underside by a silicone release paper which is removed just prior to the application of Expanproof GP to the primed substrate.

The applied membrane is then immediately protected from UV light and from mechanical damage during subsequent back filling by the application of Protection Board, or a sand/cement screed.

### Specification

The waterproofing membrane shall be self-adhesive sheet membrane comprising of a polymer modified bitumen layer internally reinforced with polyester, bonded on to an outer surface of polyethylene film. The polymer modified bitumen shall have an elongation in excess of 2000% when tested in accordance with ASTM D412.

### Technical support

Fospak offers a comprehensive technical support service to specifiers, end users and contractors. It is also able to offer on-site technical assistance, an AutoCAD facility and dedicated specification assistance in locations all over the world.

### Properties

|  |                                     |
|--|-------------------------------------|
| Tensile strength (ASTM D412)           | : Long 650 N/5cm<br>Trans 650 N/5cm |
| Elongation of break (ASTM D412)        | : Long 40%<br>Trans 45%             |
| Elongation of compound (ASTM D412)     | : >2000%                            |
| Adhesion to concrete (ASTM D1000)      | : 2.0 N/mm <sup>2</sup>             |
| Adhesion to self (ASTM D1000)          | : 3.0 N/mm <sup>2</sup>             |
| Puncture Resistance (ASTM E154:1993)   | : Min 400 N                         |
| Water absorption @ 24hrs (ASTM D570)   | : <0.02%                            |
| Water permeability (DIN 1048:pt5:1991) | : Nil                               |
| Crack bridging (ASTM C836:1995)        | : 1.5mm                             |
| Environmental Resistance (ASTM D543)   | : Conforms                          |

### Instructions for use

#### Surface preparation

Concrete surfaces should be float finished and free from cavities and projecting nibs. All surfaces shall be dry and free from frost, surface laitance and contamination.

#### Priming

Expanproof Primer must be applied to the substrate and allowed to dry until it is tack free, prior to the application of the membrane. All surfaces must be re-primed if left for more than 24 hours prior to the application of Expanproof GP.

#### Application

Smooth transition should be made at wall/floor slab junctions using a sand/cement mortar and internal and external corners at walls and up stands pre-protected with Expanproof Corner Pieces prior to the application of the membrane.

The membrane should be applied to the substrate having first removed the siliconised release paper, pressing the polyethylene film firmly ensuring that the adhesive bitumen compound bonds continuously to the substrate with no air pockets.



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Allow at least a 75mm edge and a 150mm end lap. All laps should be rolled firmly to achieve a good seal. End laps should be staggered.

On vertical or inclined surfaces, the membrane shall be laid from the lowest level upwards.

The membrane should be protected immediately after application in accordance with BS 8102:1990 by using Protection Board, or as appropriate with a sand/cement screed.

#### Limitations

Application temperature range: 5 °C – 50 °C.

For application below 15 °C it may be necessary to slightly warm the back of the membrane to achieve an immediate bond. In cold conditions the membrane should be stored at temperatures above 20°C prior to application to facilitate ease of application and immediate bond to the substrate.

#### Estimating

#### Supply

|                   |                                  |
|-------------------|----------------------------------|
| Expanproof GP     | : 10 or 15 m long x 1m wide roll |
| Expanproof Primer | : 30 liter drums                 |

#### Coverage

|                   |                               |
|-------------------|-------------------------------|
| Expanproof Primer | : 3-6m <sup>2</sup> per liter |
|-------------------|-------------------------------|

#### Storage

All products have a shelf life of 12 months if stored in a cool, dry store, away from sources of heat, in the original unopened packing. It should be stored horizontally, not more than one pallet high.

#### Precautions

#### Health and safety

There are no health hazards associated with the use of Expanproof GP and Protection Board.

If Expanproof Primer is swallowed, **do not** induce vomiting - drink a glass of water. If contact with eyes occurs, flood with copious amounts of clean water for at least 15 minutes and seek medical advice. If on the skin, remove any contaminated clothing and wash skin thoroughly.

For further information, please consult Material Safety Data Sheets for the above products.

#### Fire

Expanproof GP and Protection Board are flammable. Keep away from sources of ignition. Do not smoke in the presence of these products. Expanproof Primer contains volatile, flammable solvents. Use only in ventilated areas, well away from any ignition source.

#### Flash points

|                   |   |         |
|-------------------|---|---------|
| Expanproof GP     | : | > 65 °C |
| Expanproof Primer | : | > 38 °C |

\* Denotes the trademark registered

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