SELF ADHESIVE MEMBRANE

# VALPLAST® BITUTHENE

## Product Description

VALPLAST® BITUTHENE is a flexible waterproof membrane combining a high performance cross laminated, HDPE carrier film with a unique super sticky self-adhesive rubber bitumen compound.

## Characteristics / Advantages

- Simple application to substratesespecially at cold/Low temperatures.
- Suitable for application to "green" concrete - reduces program schedules.
- Allows application in damp or marginal weather conditions.
- Excellent bond to self and substrate from range -10°C to +35°C.
- Enhanced bond provides added security.
- Cross laminated high density polyethylene carrier film - provides high tear strength, puncture, and impact resistance.
- Accommodates concrete shrinkage cracks
- Gas resistant - methane, carbon dioxide and radon gas protection more than the standard membrane requirements in BRE Reports 211 (radon) and 212 (methane and carbon dioxide).

## Technical Parameters

| Property | Typical Value | Test Method |
|---|---|---|
| **Colour** | Dark grey black | |
| **Resistance to hydrostatic head** | >70 m of water | ASTMD5385 |
| **Methane Permeability(note 1)** | 113.14 ml/$m^2$.day. Atm | Versa perm Ltd |
| **Radon Diffusion Coefficient** | 2.3 x $10^{-11}$ $m^2$/s | University of Prague |

| Property | Declared Value | Test Method | Property | Declared Value | Test Method |
|---|---|---|---|---|---|
| **Visible defects -** MDV | No | EN 1850-2 | **Straightness** - MDV | Pass | EN 1848-2 |
| **Length** (m) - MDV | 20.15 ± 0.15 | EN 1848-2 | **Thickness** (mm) - MDV | 1.52 ± 0.08 | EN 1848-2 |
| **Width Carrier Sheet** (m) - MDV | 0.987 ± 0.007 | EN 1848-2 | **Mass per unit area** (g/m²) - MDV | 1510 ± 90 | EN 1848-2 |
| **Width Overall (roll)** (m) - MDV | 1.000 ± 0.005 | EN 1848-2 | **Durability of water tightness against ageing/degradation** (at 60 kPa) | Pass | EN 12691 EN 1928 |
| **Water tightness to liquid water** (at 60 kPa) | Pass | EN 1928 | **Durability of water tightness against chemicals** (at 60 kPa) | Pass | EN 12691 EN 1928 |
| **Resistance to impact** (Al-board) (mm) - MLV | 150 - Pass | EN 12691 | **Durability of tensile properties against chemicals** | Pass | EN 13967 Annex C |



Contact us: VALPLAST TECHNOLOGIES PVT. LTD (**Formerly Renesco India Private Limited)**
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|---|---|---|---|---|---|
| **Resistance to impact** (base EPS) (mm) - MLV | 1500 - Pass | EN 12691 | **Compatibility with bitumen** | Pass | EN 1548 |
| **Resistance to tearing (Nail Shank)** - unreinforced sheets (N) - MLV | Long[1] 120 Trans[2] 130 | EN 12310-1 | **Resistance to static loading** | Pass | EN 12730 |
| **Joint strength** (N/50mm) - MLV | 155 | EN 12317-1 | **Tensile properties -** unreinforced sheets (N/6mm) - MLV | Long[1] 18 Trans[2] 28 | EN 12311-2 Method B |
| **Water vapour transmission** (μ= sD/d) - MDV | 103.000 - 110.000 | EN 1931 Method B | **Tensile properties - unreinforced sheets** (Elongation %) - MLV | Long[1] 160 Trans[2] 75 | EN 12311-2 Method B |
| **Resistance to deformation under load** | NPD[5] | EN 13967 Annex B | **Reaction to fire** (Class; test conditions) | E | EN 13501-1 |

**How it works?**

All surfaces except those below ground bearing slabs and Valplast Membrane should be primed with one coat of Valplast water-based primer – Valplast Primer W2, which is suitable for use on damp surfaces. Valpalst Primer W2 can be applied by brush or roller. Or Valplast Primer S2, which can be used to allow priming and installation of membrane on damp surfaces or "green" concrete. Valplast Primer S2 can be applied by brush or roller

Valplast Bituthene shall be laid by peeling back the protective release paper and applying the adhesive face onto the prepared surface, free from ice, frost, condensation, or any contaminants which could adversely affect adhesion. Once the membrane is applied, cover with a protection board as soon as possible. On "green" concrete or damp surfaces, cover the membrane immediately. Valplast Bituthene to be applied at all internal and external corners, penetrations etc. prior to applying the overall membrane. Valplast Bituthene should be brushed onto the surface to ensure good initial bond and exclude air. Adjacent rolls are aligned and 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.

**Storage**

Store away from frost and heat in a dry area. It is sensitive to moisture and temperature.Reseal when partly used, by covering with nitrogen.

Storage temperature is between 10°C and 30°C. Shelf Life – 1 Year approx.

**Safety**

Avoid breathing dust/fume/gas/mist/vapours/spray. If required, wear respiratory protection. Always wear protective gloves/clothing and eye/face protection.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if on skin or hair: Remove all contaminated clothing immediately. Rinse skin with water or takeshower.

**Legal Notes**





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