

VALPLAN® BITUTHENE

Product Description

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

Characteristics / Advantages

- Simple application to substrates especially 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 polyethylenecarrier 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		ASTM D5385		
Methane Permeability (note 1)	113.14 ml/m ² .day.Atm		Versa perm Ltd		
Radon Diffusion Coefficient	2.3x10 ⁻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/m ²) - MDV	1510 ±90	EN 1848-2
Width Overall (roll) (m) - MDV	1.00 0 ± 0.00 5	EN 1848-2	Durability of water tightness against ageing/ degradation (at 60 kPa)	Pass	EN 12691 EN 1928

Watertightness to liquid water (At 60 kPa)	Pass	EN 1928	Durability of watertightness against chemicals (at 60 kPa)	Pass	EN 12691 EN 1928
Resistance to impact (AI-board) (mm)- MLV	150 - Pass	EN 12691	Durability of tensile properties against chemicals	Pass	EN 13967 Annex C
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 ($\mu = sD/d$) - MDV	103.00 0 - 110. 00 0	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	NP D5	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 VALPLAN Membrane should be primed with one coat of VALPLAN water-based primer – VALPLAN Primer W2, which is suitable for use on damp surfaces. Valpalst Primer W2 can be applied by brush or roller. Or VALPLAN Primer S2, which can be used to allow priming and installation of membrane on damp surfaces or “green” concrete. VALPLAN Primer S2 can be applied by brush or roller.

VALPLAN 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. VALPLAN Bituthene to be applied at all internal and external corners, penetrations etc. prior to applying the overall membrane. VALPLAN 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 take shower.

Legal Notes

All data in our product information are based on our current knowledge and experience. They do not release users from careful testing of the application and strict observation of the relevant processing regulations because of the wide range of possible influences during the application and use of our products. Legally valid assurances of specific characteristics or suitability for special purposes of application other than those provided in our documentation for the specific product cannot be inferred from our information. The recipient or processor of our products at their own responsibility must follow any protective rights or existing laws and provisions. Moreover, our general terms and conditions of sale and warranty are valid.