

BETOFLEX GARDEN

Torch Applied Antiroot Waterproofing Membrane

Description

BETOFLEX GARDEN membranes are used for the waterproofing of roof gardens, planters and greenery covered civil works. It is also used for the conservation of irrigation water under lawns, flower beds etc.

Uses

To provide waterproofing of roof gardens, planter area etc.

Advantages

- ✓ Positive barrier to water and dampness. High resistance to root penetration.
- ✓ Excellent resistance to ageing and atmospheric agents.
- ✓ Highly flexible during application at sub-zero temperatures without physical strains.
- ✓ Maintains shape stability at high temperatures.
- ✓ Accommodates structural movements.
- ✓ Withstands thermal choc.
- ✓ Easily torch applied
- ✓ Bonds well to the substrate
- ✓ Readily formed to contours
- ✓ Resistant to chemical attack from soil or water.

Features

The **BETOFLEX GARDEN** membranes are reinforced with weight of 180 g/m² polyester mat. It is root-proof, malleable and gives the membrane excellent shape stability. In addition to this, the membrane is specially treated with preventive chemicals to stop root growth. The upper surface is covered with a thin film of polyethylene(PBS). The bottom surface is covered with a thin film of flameable

Method of Application

SURFACE PREPARATION Concrete surfaces should be free from cavities and projecting nibs. All surfaces shall be dry and free from contamination, frost & surface laitance.

PRIMING

For applications on concrete, tiles or any other porous surface, coat the substrate with **BETOPRIME SB** (solvent based bituminous primer according to ASTM D41) at the rate of 4-5m²/litre.

Properties

Values

Membrane Thickness (ASTM D751)	4mm
Reinforcement	180 g/m ² polyester
Mass per unit area	4.0-4.3kg/m ²
Softening Point (ASTM D36)	>135°C
Penetration @25 °C Of Coating Mixture (ASTM D5)	15-25 dmm
Flexibility at low temperature (UEAtc)	-5°C
Tensile strength (L/T) (ASTM D 5147)	750/600 N/5cm
Elongation Of Membrane (L/T) (ASTM D 5147)	40/50 %
Tear resistance (L/T) (ASTM D 4073)	180/200 N
Lap joint strength (L/T) (ASTM D 5147)	750/600 N/5cm
Puncture Resistance (UEAtc), Static	L4
Dynamic	I4
Water absorption (ASTM D570)	<0.15%
Dimensional stability (ASTM D5147)	≤1.0%
Water vapour transmission (ASTM E96)	< 0.50 g/m ² /24h
Root Resistance Contains 1% Preventol B2 (DIN 4062)	Conforms

All values given are subject to 0-2 0% tolerance

Allow this coating to dry thoroughly. In time of high humidity, we recommend it should be left overnight.

APPLICATION The **BETOFLEX GARDEN** membranes should first first be unrolled and positioned correctly. Each roll should overlap the adjacent roll by 10cm. Once the roll has been positioned correctly.

the membrane should be rolled up again, taking care not to change its orientation. Using left to right movements, heat the lower surface of the membrane with a propane gas torch. This will cause slight surface melting and the molten bitumen will adhere to the surface.

Then torch on the side overlap to the recommended size of 100mm. Continue the above method for consecutive rolls remembering end-laps must be minimum 150mm. Inspection of lap joints must be carried out to ensure total adhesion.

Tools and Equipment

The application of the **BETOFLEX GARDEN** membrane requires very limited tools like propane gas torches with related gas cylinder, a knife for cutting the membranes to size and a trowel with rounded end. Protective gloves and goggles are necessary when using the gas torch.

Packing

BETOFLEX GARDEN : 10 m long x 1m wide roll
BETOPRIME SB : 20 and 200 Kg drums

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.

Health & Safety

If **BETOPRIME SB** 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.

Disclaimer

BETOFLEX products are guaranteed against defective materials and manufacture and are sold subject to its standard Conditions for the Supply of Goods and Service. All reasonable care has been taken in preparing this technical information which, to the best of our knowledge, is accurate and true at the time of printing this leaflet. Due to our policy of continued development work and depending upon the availability of the raw material, clients requirement, climatic and environmental conditions the actual technical data may differ from those described herein as it may be changed, modified or improved by us without notice.

All recommendations and suggestions are made in good faith and can only be considered for general guidance. No warranty is implied or given by us in relation to application, as conditions for use and any labor involved, are beyond our control.