

# HYDROBIT SBS

## Elastomeric SBS Modified Solvent Based Waterproofing Membrane

### Description:

HYDROBIT SBS is a high build liquid elastomeric waterproofing membrane based on modified bitumen, Styrene butadiene styrene 'SBS' copolymers and carrier solvent. HYDROBIT SBS has excellent adhesion to most substrates including concrete, plaster, masonry, bituminous roofing felts, and metal and asphalt coatings. HYDROBIT SBS cures to form a seamless, high flexible, continuous monolithic membrane that has excellent adhesion to most substrates including concrete, cement blocks, wood and existing roofing felts. It is ideally recommended as a superior waterproofing application for building structures including foundations, kitchen and toilet floors, building facades and roofs.

### Uses:

- Damp proofing of facades.
- Wet areas: kitchens and bathrooms waterproofing.
- Damp proofing of cement sheets.
- Water proofing concrete panels with potential of movement.
- Roofing and corrugated sheets waterproofing.
- Cement pipes and metal.
- Water proofing of cold store walls.

### Advantages:

- Superior water proofing membrane.
- Elastomeric, highly flexibility up to 1000%.
- Vapour permeable allows substrate to breathe.
- Excellent resistant to chloride and sulphate attacks.
- Excellent adhesion to substrate.
- Ideal maintenance solution for waterproofing damages roofing membrane.
- Easy application due to paintable consistency.
- Ensure great protection against corrosion.
- Resistant to underground soil ground water aggressive effect.
- Membrane can be easily repaired by spot application.

### Instructions for Use:

#### Surface Preparation:

Concrete substrate should be fully cured, dry, free from dust, oil, curing agent residues and other contaminants. All shrinkages and non-moving structural cracks under 1.0mm shall be covered with 1.0mm thick strip of HYDROBIT SBS extended to 50 mm on both sides of the crack. For parapet walls, columns, pipes penetrations etc. make a 45° coving fillet at all corners using LAVAREP F40. Apply a reinforcing strip of HYDROBIT SBS 1mm thick extending 150mm on both sides of the coving to form an over flashing. Voids and honeycombs must be patched with MATEX concrete repair products. Allow the patched area to cure before applying the membrane.

All metal surfaces should be made clean of paint, oils, rust and other contaminants. Apply sand blasting or mechanical preparation to expose bright metal then wipe clean the surface prior to priming.

Normally good quality concrete substrates does not require priming. In case of porous surfaces application of primer is recommended to eliminate the blisters caused by air entrapments. Use HYDROBIT SBS thinned with 20% Solvent as a primer. To join fresh applications of HYDROBIT SBS to those that are more than 48 hours old, apply diluted HYDROBIT SBS with 10% Solvent as a primer at the interface.

#### Mixing:

HYDROBIT SBS is a single component ready to use product. Shake the barrel well to mix any settled material only.

#### Application:

HYDROBIT SBS can be applied with a roller, trowel, brush or spray machine. It is recommended to apply two coats to achieve a dry film thickness of 1.0 mm. in case of roller or brush applications, apply the first

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coat to the surface in a spread rate of 1.0 kg/ m<sup>2</sup>, second coat should be applied to the first coat after it cures with same rate of application preferably in 90 degree direction.

For enhanced protection of concrete surfaces, or when the substrate is affected by mechanical loads, it is recommended that all weak areas including surface cracks, joints and areas around pipes and projections, be reinforced by embedding woven fiberglass mesh strips between two coats of HYDROBIT SBS.

HYDROBIT SBS may be applied to damp but not wet surfaces. During hot, dry weather application may be assisted by dampening the surfaces to be treated. Do not leave the applied product exposed for elongated periods, as mechanical damages might occur to the monolithic membrane. Once the membrane cures, apply protection sheets or screed mortar to ensure proper protection.

Tile adhesives can be applied to HYDROBIT SBS membrane after it is completely cured. To provide a good mechanical key with the membrane, spread the final coat of HYDROBIT SBS with clean silica sand while it is still wet. Finished flooring installations should be carried out as soon as possible after full cure of membrane is established.

## Standards:

- BS 6949, ASTM C 309 – 96, ASTM 2939

## Packaging:

HYDROBIT SBS is available in 20 liter pails.

## Coverage:

HYDROBIT SBS achieves coverage of 1.0 kg per square meter per coat for 1 mm thickness.

## Storage:

Store in original packing in dry conditions away from direct sunlight.

TECHNICAL PROPERTIES	
Appearance	Dark black/brown coating.
Solid Contents	65±5%
Elasticity	>1000%
Density	0.98 Kg/Ltr.
Service Temp.	-10°C to + 80°C
Tensile Strength	1.3 N/cm <sup>2</sup>
Vapour Permeability	0.20 gm/m <sup>2</sup> /24h
Drying Time	4 hours at 35°C
Viscosity	1500cp
Over Coating Time	14 hours at 35°C
Recovery	100%
Resistance to water (ASTM D 2939)	Excellent
Crack bridging	> 2 mm
Curing Time	24 hours @ 25°C
Aging resistance	Excellent
Flash Point	50°C

\*Values indicated may vary depending on the environment and conditions of the material. Figures given are tested according to standard laboratory conditions.

## Cleaning:

Clean all tools with SOLVENT before product hardens.

## Shelf Life:

HYDROBIT SBS can be utilized within 12 months of production date if stored in proper conditions in unopened original packing.

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## Health and Safety:

- Avoid contact with eyes and skin. Wear suitable protective clothing such as coveralls, goggles, dust mask and gloves. Use barrier cream. Ensure that there is adequate ventilation. Do not breathe vapour or spray mist.

### FIRST AID:

- Eyes: In the event of accidental splashes, flush with warm water and seek medical advice.
- Skin: Wash skin thoroughly with soap and water
- Inhalation: Remove to fresh air, keep patient rested
- Ingestion: Do not induce vomiting. Seek immediate medical attention.

For further safety information, please refer to HYDROBIT SBS Material Safety Data Sheet.

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