

HYDROBIT SBW

Elastomeric SBS Modified Water Based Waterproofing Membrane

Description:

HYDROBIT SBW is a high build water based elastomeric liquid applied waterproofing membrane based on modified bitumen, Styrene butadiene styrene 'SBS' copolymers and carrier water. HYDROBIT SBW has excellent adhesion to most substrates including concrete, plaster, masonry, bituminous roofing felts, and metal and asphalt coatings. HYDROBIT SBW 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.

Applications:

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

Advantages:

- Water based, friendly product with no odour risk.
- 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.

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 1.0 mm shall be covered with 1.0 mm thick strip of HYDROBIT SBW 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 SBW 1 mm thick extending 150 mm 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 SBW thinned with 20% water as a primer. To join fresh applications of HYDROBIT SBW to those that are more than 48 hours old, apply diluted HYDROBIT SBW with 10% water as a primer at the interface.

Mixing:

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

Application:

HYDROBIT SBW 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 1.5 mm. in case of roller or brush applications, apply the first coat to the surface in a spread rate of 1.0 kg/m²

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per. 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 SBW.

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.

HYDROBIT SBW can be applied on several kind of surfaces such as concrete, blocks, brick, corrugated sheets, asbestos. For application on metal surface (zinc, steel, etc.), it is not recommended to keep it exposed as the coating will be soften and crack due to high temperature climate.

Tile adhesives can be applied to HYDROBIT SBW membrane after it is completely cured. To provide a good mechanical key with the membrane, spread the final coat of HYDROBIT SBW 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.

HYDROBIT SBW may be applied to damp but not wet surfaces, dampen brushes before and occasionally during use to avoid clogging and ease application. During hot, dry weather application may be assisted by dampening the surfaces to be treated.

Standards:

HYDROBIT SBW conforms to:
BS 6949, ASTM C 309 – 96

Shelf Life:

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

Packaging:

HYDROBIT SBW is available in 20 liter pails and 200 liter metallic drum.

Coverage:

HYDROBIT SBW achieves coverage of 1.15 kg per square meter per coat for 1 mm thickness.

Storage:

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

TECHNICAL PROPERTIES	
Solid Contents	: 70%
Elasticity	: 1000%
Specific Gravity	: 1.15 @ 25°C
Service Temp.	: -20°C to + 85°C
Flexibility (full recovery)	: >300%
Flashpoint	: N/A
Drying Time	: 4 hours at 35°C
Over Coating Time	: 14 hours at 35°C
Rubber content	: 20%
Appearance	: Dark black/brown coating. Cures to a hard tack free finish.
Chemical Resist.	: Water, aqueous groundwater salt solutions, mild detergent, acids and alkalis.
Resistance to water (ASTM D 2939)	: Pass

Cleaning:

Clean all tools with clean water before product hardens.

Health and Safety:

- Use goggles and gloves during application. Do not breathe vapor of products. Use only in well ventilated areas.
- Avoid contact with eyes or skin.
- If splashes happens to eyes, wash immediately with abundant clean water and seek immediately medical treatment.

MATEX Rev.05-0221

This technical data sheet is not considered as local building codes. It shall be used as general reference for the product, based on our current knowledge and experience. However the company do not accept any liability arising from the use of its products as it has no direct control on how and where the product is applied.

