

# MIXGUARD SA

Self adhesive bitumen water proofing membrane

**Mixguard SA** is a SBS modified self adhesive bitumen membrane with a tough polyester surface which has a high chemical, puncture and ultra violet resistance. The self adhesive side is protected with a silicon coated film, which must be removed before application. A selvedge is provided on one side of the membrane to give a bitumen to bitumen contact on overlaps, thus restricting any water penetration through the lap joints. The polyester surface is provided to enhance the puncture resistance of the membrane

## Appropriation

Mixguard SA has a layer of modified bitumen which helps it to adhere to any surface and at the same time provide an efficient waterproofing layer. This property enables Mixguard SA to be put to use as a damp proof protection membrane. It is suitable for vertical and horizontal applications and for tanking below the ground level structures, subways and retaining walls. It is recommended for structures that are not very deep, where ever the use of protection board may be avoided due to the enhanced puncture resistant property of the membrane.

## Characteristics

- Cold applied, self adhesive and easy to apply
- Excellent puncture resistance and UV resistance
- Excellent adhesion to vertical and horizontal surfaces
- Excellent resistance to aggressive soil conditions and contaminated water
- Excellent resistance to chlorides, sulphates, alkalis and acids
- Completely non biodegradable
- Most suitable to protect Mixtape and Mixstick membranes on pipes and complicated profiles
- No need for additional protective layer during backfilling

## Technical Data & Properties

Standard confirms: BS code of practice BSCP 102 and BS 8102

Properties	Values		Standards
Thickness mm	1.5	2.0	DIN EN 1894-1
Mass per unit area (kg/m <sup>2</sup> )	1.6	2.0	DIN EN 1894-1
Top surfacing g/ m <sup>2</sup>	140		
Softening point (°C)	> 100		ASTM D 36
Tensile strength (N/5cm)	450	350	DIN EN 12311-1
Elongation (%)	30	40	DIN EN 12311-1
Puncture resistance (N)	> 400		ASTM E 154
Tear resistance (N)	350	300	ASTM D 4073
Adhesion to primed surface N/mm <sup>2</sup>	>1.8		ASTM D 1000
Hydrostatic pressure	>5 bar		ASTM D 570
UV Resistance	>1		ASTM G 53
Chemical resistance	pH 20-11.5		543ASTM D

The tensile and tear strength values reported are the higher values of either longitudinal or transverse direction. Other values given are 5-15% variation

## Product Management

Surface preparation:

A smooth, regular and dry surface is always a must for good application. The substrate should be completely free of any protrusions or cavities. The presence of oily substances, frost or other moisture should be completely avoided.

Priming:

Apply Mixprime SB at a rate of 4 to 6 sqm per litre as a primer coat. The primer coat should be touch dry before the application of the membrane

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## Method of Application:

The application temperature should be between 4 °C to 45 °C. Application procedure may vary slightly depending up on site conditions

## Alignment:

Start the installation of all membrane plies from the low point or drains, so the flow of water is over or parallel to the plies, but never against the laps. All overlaps of the membrane seams shall be installed so as to have up slope laps over down slope laps. Begin membrane application by unrolling the roll of Mixguard SA and aligning the side laps.

## Application:

Unroll only the required length, and cut the piece to the desired shape and size. Place the pieces of membrane on the area to be covered, and check whether they match with the marked substrate. Peel of the release film and carefully place the membrane so as to ensure a 150 mm overlap on the selvages alone. Smoothen the membrane from the center to the edges in order to drive out entrapped air with a wooden press. Roll with an iron roller to make sure a proper and strong adhesion of the bitumen compound with base surface. A 50 mm seldge is provided on one side of the membrane to give a bitumen-to-bitumen contact on the overlaps. But the end of the overlaps will be butt jointed as the bitumen will not adhere to the polyester fleece. To provide a water tight seal and restrict any water penetration through these butt joints a 200 mm double side bitumen butadiene tape shall be laid on that area prior to the membrane application. Once the bitumen strip is put in place remove the silicone release film from the top and expose the self adhesive bitumen. The Mixguard SA membrane will then be applied on top of the exposed bitumen strip and overlapping by 100mm. The subsequent membrane will then be overlapped with the other 100mm of Bitumen strip.

## Packing & Storage

Mixguard SA is available in rolls of 1 mtr x 15 mtr / 20 mtr of 20 in a pallet. Shelf life is 12 months when stored as per recommendations. Failure to comply with the recommended storage conditions may result in premature deterioration of the product. Mixguard SA range of membranes must be stored in a shaded area on wooden pallets neatly covered by a thick fabric and tied securely in a manner that will minimize exposure to sunlight. It should be protected from extreme temperatures. In extreme tropical climates the product must be stored in cooled ambience

Disposal: Mixguard SA is a non hazardous, non flammable material and therefore can be disposed of in any regular disposal area. Mixguard SA should be disposed of only after wrapping with paper, plastic or cloth as the modified material has tendency to soften under heat and pressure, which would make further handling very difficult

Handling: Mixguard SA membranes packed in loose corrugated boxes to avoid any damage during transit or during storage at sites.

## Health & Safety

Mixguard SA contains a tacky bitumen compound, which while applied can stick on human skin. Such stains can be removed using a cloth dipped in light solvent, if the affected area is sensitive please seek medical attention. For more details; please refer to the MSDS released on each FAB product

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Technical information given in this datasheet is true and exact to the best of our knowledge, laboratory upshot and hands-on application. The datasheets of all products are revised/updated regularly and hence ensure that the latest release is used for reference and recommendation. The date of the publishing is as in this sheet. All data are mean of numerous tests, assessment and analysis conducted under laboratory ambience. Climatic disparity in temperature, humidity, etc. and porosity of substrate may impinge on the values.

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