

# MIXGUARD MS

## Mineral surfaced bitumen water proofing membrane

**Mixguard MS** is a high performance roofing membrane surfaced with reflective natural colour slates to give maximum protection against UV radiation. The presence of the slates will also provide a mechanical protection against light foot traffic and occasional maintenance as well as offering an aesthetically pleasant surface. It is an ideal membrane for re-roofing application where it can be placed on top of the existing surface, providing an economical and efficient solution to leaking roofs. Mixguard MS slated membrane is resistant to water borne chemical attack

### Appropriation

Mixguard MS is used as waterproofing membrane for protection of various substrates in wide range of applications such as inverted roofs, parapets, terraces, patios, airport aprons and ramp areas.

### Characteristics

Membrane surfaced with reflective natural colour slate  
Maximum protection against UV radiation  
Mechanically protection against light foot traffic  
Aesthetically pleasant  
Provides an economical and efficient solution to leaking roofs  
Resistant to water borne chemical attack

### Technical Data & Properties

Properties	Values	Test standards
Thickness	4.0	DIN EN 1849-1
Mass per unit area (kg/m <sup>2</sup> )	3.4 to 4.6	DIN EN 1849-1
Reinforcement (polyester) g/m <sup>2</sup>	140	DIN EN 1849-1
Coating asphalt	Polymer modified asphalt	ASTM D 36/DIN EN 1427
Softening point (R&B), °C,	>115	ASTM D 5/DIN EN 1426
Penetration @25 °C(0.1mm)	12-22	
Tensile strength (N/5cm)	550/400	DIN EN 12311-1
Elongation @break (%)	30/40	DIN EN 12311-1
Shear resistance @joints (N/5cm)	450/300	DIN EN 1217-1
Tear resistance (N)	150/160	DIN EN 12310-1
Resistance to static loading	Static L <sub>25</sub>	DIN EN 12730

### Product Management

Surface preparation:

The surface must be clean and free of oil, grease, dust and any other unwanted residual material and curing compounds. The surface to receive the membrane should be 14 days of age and all the construction joints must be checked for its water tightness and if required inject cement slurry to tight the joint. For sunken application all the cold joints must be thoroughly inspected for its water tightness, extra care must be taken to grout all inlet and outlet pipes carefully with Non shrink grout material Structurally unsound and friable concrete must be removed and repaired with a suitable Mixbuild concrete repair mortar

Priming:

Apply Mixprime SB (Solvented primer) @4-6 sqr mtr / ltr to the prepared surface by brush / roller. Allow the primer to dry prior to the application of membrane. As the viscosity of the primer is low, it easily penetrates into the concrete pores which promote the adhesion between the membrane and the concrete surface. In addition to that the primer also acts as a binder for the dust on the concrete even after cleaning

# MIXGUARD MS

Mineral surfaces bitumen water proofing membrane

---

## Method of application:

### 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 piles, but never against the lap. All overlaps at the membrane seams shall be installed so as to have up slope laps over down slope lap. Begin membrane application by unrolling the roll of Mixguard MS membrane and alignment the side laps. Re roll of the half way and stand on the unrolled portion to prevent shifting. Side overlaps should be a minimum of 100mm and the end overlap 150mm

### Torching:

Mixguard MS membranes are installed by using a cylinder fed propane gas torch. Use of hand-held roofing torch is recommended as it affords a good control. If multiple burner torching machines are utilized, care must be taken to ensure the application of uniform heat and avoid overheating of the membrane. Begin torching of the embossed polyethylene side of the rolled portion of the membrane. Proper torching procedure involves passing the torch flame in an L pattern applying about 75% of the heat across the substrate, including the lap area of the previously installed membrane. As the membrane is heated the embossing starts to melt away exposing a shiny bitumen surface. Roll forward the membrane and press firmly with the boot or roller against the substrate to bond well. Side and up the lap edge while the membrane is slowly unrolled and adhered to the surface. Subsequent shift of the roll shall be avoided after heating has begun. When one end is complete, re roll the opposite end not yet torched, and install in the same manner.

As subsequent rolls are installed, heat is applied to both the roll and the exposed laps of the membrane being overlapped onto. Be sure to heat the entire roll evenly, not just the lap areas, with extra concentration at the laps.

### Sealing:

Heat both the overlaps and use round tipped trowel to seal the overlap. Adequate heat is confirmed when an uniform flow of melted bitumen compound flows evenly in a bead that oozes from the applied membranes edges. Excess compound should be smoothed and pressed into the seam using a heated trowel. Any unbounded areas must be lifted and re torched. Do not attempt to reseal by torching the top surface of the membrane.

### Up stand

Flashing details are accomplished using cut pieces of Mixguard MS membranes in combination with appropriate prefabricated flashing components. The same side lap and end lap rules apply to flashing details as to field membrane. All angles and abutments should be sealed with extra care to ensure full bonding. An appropriate flashing membrane shall be lapped with the base membrane and taken up on the parapet wall and tucked into a groove cut into the concrete. The grooves will be sealed with a suitable mastic sealant (MIXFLEX BT)

THE CONSTRUCTION CHEMIST



FABCHEM



PYCHEM



MIX UK LTD

# MIXGUARD MS

Mineral surfaces bitumen water proofing membrane

## Packing & Storage

Roll size

3mm 1 x 10mtr

4mm 1 x 10mtr

MIXGUARD M

4mm 1 x 10mtr

MIXPRIME S41

20 ltr pail

MIXFLEX BT

20 kg pail

Mixguard MS should be stored in cool, dry and shaded warehouses. Shelf life is 12 months when stored under cover, out of direct sunlight and gas cylinders, protected from extreme temperatures and as per recommendations. In extreme tropical climate, the product must be stored in cooled ambience. Extra care should be taken care when working near combustible materials or items which might be scorched by the gas flame. Mixguard MS is no hazardous materials and can be disposed off any regular disposed area.

## Health & Safety

Mixguard MS contains no hazardous substance. As with all construction chemical products, caution should always be exercised. Protective clothing such as gloves and goggles shall be worn whilst torching and sealing. Wearing long sleeve overall, safety shoes and face mask is recommended for maximum safety. Bitumen components when applied can stick to human skin, such stains can be removed by using a cloth dipped in light solvent. Treat any splashes to the skin or eyes with fresh water immediately. Should any of the products be accidentally swallowed, do not induce vomiting, but call for medical assistance immediately. For more details, please refer to the MSDS released on each Fab product.

Rev. Mar-10/1

THE CONSTRUCTION CHEMIST



FABCHEM



PYCHEM



MIX UK LTD

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.

### Group Head office:

PYCHEM Co. L L C

Post Box 23940, Sharjah.

Te: +971 6 5420414 / 5431636

Fax: +971 6 5421446

Mail: [mail@fab-cc.com](mailto:mail@fab-cc.com)

[fabchem@gmail.com](mailto:fabchem@gmail.com)

Under Technical Collaboration with

**MIX UK Limited**

Cherry Tree House, Cherry Tree Lane

Rostherne, Cheshire, WA143RZ

Web: [www.mixuk.com](http://www.mixuk.com)

### Head office:

T33A/1, Thryambhava Houses

Kalapetty road, Coimbatore – 14

Tel: 0422 3222245

Fax: 0422 2625207

Mail: [mail@fab-cc.com](mailto:mail@fab-cc.com)

[fabchem@gmail.com](mailto:fabchem@gmail.com)