



SOLIDFLEX MEMBRANE 3S

APP Modified Bituminous Waterproofing Membrane



BENEFITS

- > Excellent resistance to positive water and vapour pressure.
- > Good heat resistance.
- > Good dimensional stability under tension.
- > Can accommodate structural movements because of excellent flexibility.
- > High puncture and fatigue resistance.
- > High tensile and tear strengths.
- > Resistant to water borne chemicals.
- > Anti root grade resistant to penetration of roots available.

DESCRIPTION

SOLIDFLEX MEMBRANE 3S is a plastomeric waterproofing membrane, manufactured from a rich mixture of bitumen and selected app (atactic poly propylene) polymers blended together to obtain excellent heat and UV resistance and waterproofing properties. The polymerised bitumen is coated on to a dimensionally stable reinforcement core of non woven spun bond polyester rot-proof fabric. Upper surface finish is available in PE Film or Fine Sanded Finish.

USES

SOLIDFLEX MEMBRANE 3S is used as a waterproofing membrane on the following structures:

- > Inverted roofs and parapets.
- > Terraces, balconies and patios.
- > Sunken slab.
- > Bridges and tunnels.
- > Concrete foundations and footings.
- > Basements.

SHELF LIFE & STORAGE

SOLIDFLEX MEMBRANE 3S whether loose or on pallets have to be stored vertically in a shaded area neatly covered by a thick fabric and tied securely in a manner that will minimize exposure to sunlight and UV. **SOLIDFLEX MEMBRANE 3S** will have a shelf life of 12 months when stored as per recommendations. Excessive exposure to sunlight, UV and other sources of heat will result in considerable deterioration of the product and reduce its shelf life.



HOW TO USE

SOLIDFLEX MEMBRANE 3S is installed by using a cylinder fed propane gas torch. Use of hand-held roofing torch is recommended as it affords a good control. Begin torching the embossed polyethylene side of the rolled portion of the 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. The propane flame should be moved from side to side and up the lap edge while the membrane is slowly unrolled and adhered to the surface.

PACKING & COVERAGE

SOLIDFLEX MEMBRANE 3S is supplied in 1 x 10 m rolls, coverage of 10 m² per roll.

HEALTH & SAFETY

SOLIDFLEX MEMBRANE 3S contains a tacky bitumen which when applied can stick to human skin. Such stains can be removed by using a cloth dipped in a suitable cleaner.

PHYSICAL PROPERTIES

PROPERTIES	VALUES	CODE
Thickness (mm)	3.0	
Mass per Unit Area (kg / m ²)	3.8 ~ 4.0	
Upper Surface Finish	Fine sand	
Lower Surface Finish	PE oil	
Length (m)	10.0	
Width (m)	1.0	DIN EN 1848-1
Straightness (mm) Max.	20 mm x 10 m	DIN EN 1848-1
Visible Defects	Absent	DIN EN 1850-1
Coating Asphalt Softening Point R&B °C	Polymer modified asphalt 150.0	DIN EN 1247 / ASTM D 36
Penetration @ 25 °C (0.1mm)	18 ~ 23	DIN EN 1426 / ASTM D 5
Reinforcement Polyester, (g / m ²) (GSM)	180	DIN EN 29073-1
Tensile Strength (L / T), (N / 5)	750 / 650	DIN EN 12311-1
Elongation at Break (L / T), (%)	40 / 45	DIN EN 12311-1
Shear Resistance at Joints (L / T), (N / 5)	600 / 500	DIN EN 12317-1
Tear Resistance (L / T), (N)	160 / 170	DIN EN 12310 -1
	350 / 300	ASTM D 5147
Resistance to Static Loading	20 kg	DIN EN 12730
Dimensional Stability (%)	±0.6	DIN EN 1107-1 / ASTM D 6222
Heat / Flow Resistance @ 120 °C	No flow	DIN EN 52123 / DIN EN 1110
Low Temperature Flexibility @ 0 °C	No crack	DIN EN 1109 / ASTM D 5147
Water Absorption (BSP) %	0.20	ASTM D 5147
Hydrostatic Pressure Resistance @ 5 bar (50 mm)	No leakage	BS EN 12390

Reaction to Fire	Class E	DIN EN 13501-1
Water Vapour Transmission (g / m ² / 24 hours)	0.01	ASTM E 96
Resistance to Root Growth	Passed (Anti-root grade only)	DIN E 13948

QUALITY ASSURANCE

SOLID manufactures the entire range of construction chemical under compliance of SIRIM and other international standards (ASTM, BS, GBI, LEED).

TECHNICAL SERVICES

While new advance and changes will take place but one thing will never change is quality and meeting special needs of our customers. Our technical personnel and experts are available to provide additional information and technical assistance. We are eager to work with you in development of new product and resolve your problem.

Disclaimer : The information provided in the data sheets is based on both current development of work and years of field experience. Efforts are made to ensure that the information is reliable, however, we cannot accept the responsibility for any work carried out with our materials as we have no control over methods of application, site conditions etc. In view of continuing research and development (R&D) undertaken in our laboratories, we advise customers to ensure that the data sheets provided are not superseded by an updated publication. All products are sold are subject to our standard condition of sale, which is available on request. Field services, where provided, does not constitute supervisory responsibility. For additional information, please contact our local SOLID representative.



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