



# SOLIDFLEX MEMBRANE 4M (G)

Mineral Surfaced Bituminous Waterproofing Membrane



## DESCRIPTION

**SOLIDFLEX MEMBRANE 4M (G)** is a high polymer modified plastomeric bituminous waterproofing membrane, surfaced with reflective natural color slates to provide maximum protection against UV. The presence of the slates provides a mechanical protection against light foot traffic and occasional maintenance as well as offering an aesthetic surface. It is an ideal membrane for roofing and exposed applications where it can be placed on top of the existing surface and providing an economical and efficient solution to leaking roofs.

## BENEFITS

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

## USES

**SOLIDFLEX MEMBRANE 4M (G)** is used for waterproofing of exposed areas such as inverted roofs, parapets, terraces, patios, airport aprons and ramp areas.

## SPECIFICATION

**SOLIDFLEX MEMBRANE 4M (G)** is a bituminous waterproofing membrane that can be applied over well prepared sound substrates to provide extremely tough durable waterproof render, which can be used strictly in accordance with the construction of SOLID.

## STANDARD COMPLIANCE

**SOLIDFLEX MEMBRANE 4M (G)** are tested and conform to the requirements of **UEA 2001** and **ASTM** and **DIN EN**.



## HOW TO USE

**SOLIDFLEX MEMBRANE 4M** 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 4M (G)** is supplied in 1 x 10 m rolls.

## HEALTH & SAFETY

**SOLIDFLEX MEMBRANE 4M (G)** contain a tacky bitumen compound which when applied can stick to human skin. Such stains can be removed by using a cloth dipped in suitable cleaner.

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## PHYSICAL PROPERTIES

Characteristic	Expression of result	Value
Visible defects / Statement	Pass	Pass
Length / m	MLV	10-1%
Width / m	MLV	1-1%
Straightness / Statement	Pass <20mm/10m	Pass
Thickness / mm	MDV $\pm 10\%$	4
Mass per unit area / Kg/m <sup>2</sup>	MDV $\pm 10\%$	-
Watertightness / Statement	Pass >60 kPa	Pass
Watertightness after stretching at low temperature / %	MLV	NPD
External fire performance / Class	Pass	F roof
Reaction to fire / Class	Pass	F
Tensile properties: maximum tensile force L/T / N/50 mm	MDV $\pm 20\%$	400 300
Tensile properties: elongation L/T / %	MDV $\pm 15$ abs	35 35
Resistance to tearing (nail shank) L/T / N	MDV $\pm 30\%$	130 130
Resistance to impact / mm	MLV	700
Resistance to static loading / kg	MLV	10
Flexibility at low temperature / °C	MLV	0
Flow resistance at elevated temperature / °C	MLV	130
Dimensional stability / %	MLV	$\pm 0,3\%$
Form stability under cyclical temperature change / mm	MLV	NPD
Artificial aging by long term exposure to elevated temperature	MDV	NPD/10
Flexibility at low temperature / °C	MLV	NPD
Flow resistance at elevated temperature / °C	MLV	120
Artificial aging by combination of UV radiation and water	Pass	NPD
Adhesion of granules / %	MDV	<30%
Water vapour transmission properties / $\mu$	MDV $\leq 20.000$	20.000
Resistance to root penetration / Statement	Pass	NPD
Peel resistance of joints / N/50 mm	MDV	NPD
Shear resistance of joints / N/50 mm	MDV	300/200
Durability-Watertightness after artificial ageing / Statement	Pass	NPD
Durability - Watertightness after exposure against chemicals	Pass	NPD
Chemical resistance / Information	Tab. C1&C2	Tab. C1&C2

## SHELF LIFE & STORAGE

**SOLIDFLEX MEMBRANE 4M (G)** whether loose or on pallets have to be stored vertically in shaded area neatly covered by a thin fabric and tight securely in a manner that will minimize exposure to sunlight and UV. **SOLIDFLEX MEMBRANE 4M (G)** 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.

## 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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