

MasterSeal 751 TPEF

Synthetic membrane of TPO

MATERIAL DESCRIPTION

MasterSeal 751 TPEF synthetic liner of TPO modified polyolefin, by inserting polyester mesh reinforcement and 200 g/m² polyester fleece backing. Sand grey in colour obtained by coextrusion, with different physical-chemical properties on the two sides, single layer less than 20% of the material mass. The upper sand grey layer, which is exposed, is characterised by an extremely high resistance to weathering and ultraviolet rays, whereas the lower fleece backing layer resistance to puncturing and adhered to the substrate.

TYPICAL APPLICATIONS

MasterSeal 751 TPEF can be applied in the following circumstances:

- Exposed roofing fully bonded.
- Landscaped areas and roof gardens.
- Mechanically fixing on incompatible substrate.
- May be used in underground structures and potable water structures.

ADVANTAGES

- It has superior mechanical characteristics and has an extremely high resistance to weathering and ultra violet rays.
- High mechanical properties and resistance to puncturing.
- Resistance to root penetration.
- If double welded it allows pressure testing of joints.
- Good resistance to hydrocarbons and bacterial attack.
- Long life expectancy.
- Resistance to wind stress.
- High environmental capability.
- Adaptability to structural movements.

PACKAGING AND ROLL SIZE

MasterSeal 751 TPEF is supplied in various thicknesses and widths of 2.10 meters.

Thickness (mm)	1.2	1.5	1.8	2.0	2.5
Width (m)	2.10	2.10	2.10	2.10	2.10
Length (m)	25	20	20	20	20
Colour	Sand grey				

Fire-resistant version is available on request (class B2 according to DIN 4102/1) with EP/PR-FR designation

APPLICATION PROCEDURE

Usually applied by a Specialist Applicator. Please contact Master Builders Solutions for specific application assistance.

WATERTIGHT SYSTEMS & ENGINEERED SOLUTIONS

Master Builders Solutions provides systems and engineered solutions, to suit the structure, at the design and construction stages, to ensure water tightness. Various products and elements which form an integral part of a system are manufactured and approved by Master Builders Solutions.

The following ranges of products are available:

- MasterSeal range - Active and passive joint treatment preformed membranes
- MasterSeal range - Liquid applied membranes and protective coatings
- MasterFlow range - High performance grouts
- MasterEmaco and MasterBrace ranges - Repair materials.

STORAGE

Store out of direct sunlight, clear of the ground and on pallets.

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NOTE

Technical support, where provided, does not constitute supervisory responsibility. For additional information contact your local MB Construction Chemicals Solutions South Africa (Pty) Ltd representative. MB Construction Chemicals Solutions South Africa (Pty) Ltd shall not be liable for technical advice provided.

MB Construction Chemicals Solutions South Africa (Pty) Ltd reserves the right to have the true cause of any difficulty determined by accepted test methods. Undertaking such tests is not, and shall not be deemed to

be, an admission of liability or an assumption of any risk, loss, damage or liability.

QUALITY AND RESPONSIBLE CARE

All products originating from MB Construction Chemicals Solutions South Africa (Pty) Ltd are manufactured under a management system independently certified to conform to the requirements of the quality standards ISO 9001, environmental and occupational health and safety standards.

* Properties listed are based on laboratory controlled tests.

PHYSICAL / CHEMICAL PROPERTIES*

Thickness UNI EN 1849 - 2	1.2mm	1.5mm	1.8mm	2.0mm	2.5mm
Specific weight UNI EN 1849 - 2	1.35 kg/m ²	1.60 kg/m ²	1.88 kg/m ²	2.05 kg/m ²	2.52 kg/m ²
Tensile strength UNI EN 12311 - 2	≥ 1100 N/5 cm	≥ 1100 N/5 cm	≥ 1100 N/5 cm	≥ 1100 N/5 cm	≥ 1100 N/5 cm
Elongation to break UNI EN 12311 - 2	≥15 %	≥15 %	≥15 %	≥15 %	≥15 %
Puncture resistance DIN 16726 - 5.12	≥ 400 mm	≥ 700 mm	≥ 900 mm	≥ 1150 mm	≥ 1650 mm
Cold bending UNI EN 495 - 5	≤ - 40°C	≤ - 40°C	≤ - 40°C	≤ - 40°C	≤ - 40°C
Hydrostatic pressure resistance (6 hours at 5 bar) UNI EN 1928 met B	waterproof	waterproof	waterproof	waterproof	waterproof
Resistance to artificial weathering UNI EN 1297	no cracking	no cracking	no cracking	no cracking	no cracking
Root resistance DIN 4062	No penetration	No penetration	No penetration	No penetration	No penetration
Resistance to hail on rigid substrate UNI EN 13583	≥ 25 m/s	≥ 25 m/s	≥ 25 m/s	≥ 25 m/s	≥ 25 m/s
Dimensional stability after 6 hours at 80°C – UNI EN 1107 - 2	≤ ± 0.5 %	≤ ± 0.5 %	≤ ± 0.5 %	≤ ± 0.5 %	≤ ± 0.5 %
Tear Resistance UNI EN 12310 - 2	≥ 300 N	≥ 300 N	≥ 300 N	≥ 300 N	≥ 300 N
Thermal ageing in air after 168 d at 70°C Cold bending UNI EN 1296	≤ - 40 °C	≤ - 40 °C	≤ - 40 °C	≤ - 40 °C	≤ - 40 °C
Peel resistance of joints UNI EN 12316 - 2	≥15 N/50 mm	≥15 N/50 mm	≥15 N/50 mm	≥15 N/50 mm	≥15 N/50 mm
Shear resistance of joints UNI EN 12317 - 2	Breaking out of joints	Breaking out of joints	Breaking out of joints	Breaking out of joints	Breaking out of joints
Resistance to impact UNI EN 12691	10 mm	10 mm	10 mm	10 mm	10 mm
Resistance to static punching UNI EN 12316	≥ 20 kg	≥ 20 kg	≥ 20 kg	≥ 20 kg	≥ 20 kg

DISCLAIMER

The technical information and application advice given in this MB Construction Chemicals Solutions South Africa (Pty) Ltd publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.