MasterSeal® 751TPEF

Synthetic membrane of TPO

DESCRIPTION

MasterSeal 751TPEF synthetic liner of TPO modified polyolefin, by inserting polyester mesh reinforcement and 200 g/m² polyester fleece backing. Sand grey in colour obtained by co-extrusion, 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 751TPEF 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 SIZES

MasterSeal 751TPEF 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 BASF Construction Chemicals for specific application assistance.

WATERTIGHT SYSTEMS & ENGINEERED SOLUTIONS

BASF Construction Chemicals 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 BASF. The following ranges of products are available;

- **MasterSeal** range - Active and passive joint treatment and 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.

BASF
We create chemistry

MasterSeal® 751TPEF

PHYSICAL/CHEMICAL PROPERTIES*

Thickness UNI EN 1849 - 2	1.2 mm	1.5 mm	1.8 mm	2.0 mm	2.5 mm
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 %
Tear Resistance UNI EN 12310 - 2	≥ 300 N	≥ 300 N	≥ 300 N	≥ 300 N	≥ 300 N
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
Resistance to artificial weathering UNI EN 1297	No cracking	No cracking	No cracking	No cracking	No cracking
Hydrostatic pressure resistance (6 hours at 5 bar) UNI EN 1928 meth. B	waterproof	waterproof	waterproof	waterproof	waterproof
Dimensional stability after 6 hours at 80°C - UNI EN 1107 - 2	≤ ± 0.5 %	≤ ± 0.5 %	≤ ± 0.5 %	≤ ± 0.5 %	≤ ± 0.5 %
Resistance to hail on rigid substrate UNI EN 13583	≥ 25 m/s	≥ 25 m/s	≥ 25 m/s	≥ 25 m/s	≥ 25 m/s
Root resistance DIN 4062	No penetration	No penetration	No penetration	No penetration	No penetration
Thermal ageing in air after168 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/50mm	≥ 15 N/50mm	≥ 15 N/50mm	≥ 15 N/50mm	≥ 15 N/50mm
Shear resistance of joints UNI EN 12317 - 2	Breaking out of joint	Breaking out of joint	Breaking out of joint	Breaking out of joint	Breaking out of joint
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

NOTE

Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local BASF representative.

BASF reserves the right to have the true cause of any difficulty determined by accepted test methods.

QUALITY AND CARE

All products originating from BASF's Dubai, UAE facility are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, ISO 14001 and OHSAS 18001.

* Properties listed are based on laboratory controlled tests.

® = Registered trademark of the BASF-Group in many countries.

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