

MasterSeal 753 THE

Synthetic membrane of TPO

MATERIAL DESCRIPTION

MasterSeal 753 THE is a synthetic liner of TPO modified polyolefin, with fibre reinforced composite, in two-colour version (green/black), obtained by coextrusion. This allows production of a single layer liner with different physical chemical properties on the two sides. The upper green layer, exposed, is characterised by a very high resistance to weathering and ultraviolet rays, whereas the lower black layer is resistant to puncturing and to roots.

TYPICAL APPLICATIONS

MasterSeal 753 THE can be applied in the following circumstances:

- Water containment structures open to the elements.
- Artificial lakes and water features.
- Canal and water transportation structures.
- Landscaped areas, gardens and golf courses.

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.
- Rot-proof.
- Resistance to root penetration.
- Good resistance to microbial attack.
- Can be applied to a compacted soil base with a geotextile separation.
- Long life expectancy.

PACKAGING AND ROLL SIZE

MasterSeal 753 THE is supplied in various dimensions which are detailed below:

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	Green / Black**				

**on request available in black colour

APPLICATION PROCEDURE

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

STORAGE

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

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.

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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	1.26 kg/m ²	1.58 kg/m ²	1.89 kg/m ²	2.10 kg/m ²	2.63 kg/m ²
Tensile strength UNI EN ISO 527 - 3	≥ 10 N/mm ²	≥ 10 N/mm ²	≥ 10 N/mm ²	≥ 10 N/mm ²	≥ 10 N/mm ²
Elongation to break UNI EN 12311 - 2	≥ 550%	≥ 550%	≥ 550%	≥ 550%	≥ 550%
Puncture resistance DIN 16726 - 5.12	≥ 400 mm	≥ 700 mm	≥ 900 mm	≥ 1100 mm	≥ 1600 mm
Cold bending UNI EN 495 - 5	≤ - 35°C	≤ - 35°C	≤ - 35°C	≤ - 35°C	≤ - 35°C
Hydrostatic pressure resistance (6 hours at 5 bar) UNI EN 1928 met B	waterproof	waterproof	waterproof	waterproof	waterproof
Root resistance DIN 4062	No penetration	No penetration	No penetration	No penetration	No penetration
Tear Resistance ISO 34 specimen fig. 2	≥ 45 N/mm	≥ 45 N/mm	≥ 45 N/mm	≥ 45 N/mm	≥ 45 N/mm
Resistance to static punching (CBR) UNI EN ISO 12236	≥ 750 N	≥ 1000 N	≥ 1200 N	≥ 1350 N	≥ 1700 N
Resistance to Oxidation tensile strength variation UNI EN 14575	< 25 %	< 25 %	< 25 %	< 25 %	< 25 %
Resistance to weathering (12000 h) tensile strength variation UNI EN 12224	< 25 %	< 25 %	< 25 %	< 25 %	< 25 %
Resistance to leaching tensile strength variation loss in mass UNI EN 14415 method A and B	< 25 % < 5 %	< 25 % < 5 %	< 25 % < 5 %	< 25 % < 5 %	< 25 % < 5 %

DISCLAIMER

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