

# MasterSeal<sup>®</sup> 753THE

## Synthetic membrane of TPO

### DESCRIPTION

**MasterSeal 753THE** 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 753THE** 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 SIZES

**MasterSeal 753THE** 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 GUIDELINES

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

### WATERTIGHT SYSTEMS & ENGINEERED SOLUTIONS

Master Builders Solutions 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 Master Builders Solutions. 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
- The **MasterSeal 753THE** has a dimpled surface which is used as a part of the vacuum system for use in critical situations. It is available in thickness of 2.2mm and 2.4mm

# MasterSeal® 753THE

## PHYSICAL/CHEMICAL PROPERTIES\*

	1.2mm	1.5mm	1.8mm	2.0mm	2.5mm
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 <sup>2</sup>	1.58 kg/m <sup>2</sup>	1.89 kg/m <sup>2</sup>	2.10 kg/m <sup>2</sup>	2.63 kg/m <sup>2</sup>
Tensile strength UNI EN ISO 527 - 3	≥ 10 N/mm <sup>2</sup>	≥ 10 N/mm <sup>2</sup>	≥ 10 N/mm <sup>2</sup>	≥ 10 N/mm <sup>2</sup>	≥ 10 N/mm <sup>2</sup>
Elongation to break UNI EN ISO 527-3	> 550%	> 550%	> 550%	> 550%	> 550%
Resistance to impact strength 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
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 %
Root resistance DIN 4062	No penetration	No penetration	No penetration	No penetration	No penetration

The mechanical properties of the **MasterSeal 753THE** are the same as above except for the thickness of the dimples. On request TPO Liquid is also available for making joints and details.

## STORAGE

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

## QUALITY AND CARE

All products originating from Master Builders Solutions 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 and ISO 14001.

\* Properties listed are based on laboratory controlled tests.

® = Registered trademark of the MBCC Group in many countries.

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## STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this Master Builders Solutions 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.

## NOTE

Field service where provided does not constitute supervisory responsibility. Suggestions made by Master Builders Solutions either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not Master Builders Solutions, are responsible for carrying out procedures appropriate to a specific application.

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