

MasterSeal[®] 754TBG

Two coloured TPO membrane for underground works

DESCRIPTION

MasterSeal 754TBG is a synthetic TPO membrane made by co-extrusion with an insert of glass fibre. It is highly resistant to attack by micro-organisms and perforation by roots. It is a different colour on each side:

- The upper surface (light green), which accounts for less than 20% of the total thickness, forms the "signal layer".
- The underside (black) is highly resistant to puncture and perforation by roots.

MasterSeal 754TBG is not UV resistant.

TYPICAL APPLICATIONS

MasterSeal 754TBG is a two-coloured membrane used as a waterproofing layer in civil engineering and building structures, such as:

- Tunnels and buried galleries
- Cut and cover tunnels
- Underground works
- Coverings of buried structures
- Underground car parks

The waterproofing membrane

MasterSeal 754TBG includes a thin colored layer on the visible face of the membrane that allows a quick visual check of any damage occurred to the membrane during the application. This layer is called the "signal-to-layer".

MasterSeal 754TBG membrane can be used as part of a single-layer waterproofing system, compartmentalised or not, and in Flag Vacuum system.

The sheets are welded together by applying hot air or using hot wedge, with manual or automatic welder. The welding can be made either with a track that with double track. The double track allow to perform a pneumatic test with air.

ADVANTAGES

- Excellent weldability
- Includes a signal layer
- High resistance to attack by micro-organisms and perforation by roots
- Can be used in the vacuum system

INSTALLATION EQUIPMENT

- Manual welding with hot air
- Automatic welding machine with hot air
- Automatic welding machine with double track.

PACKAGING AND ROLL SIZES

MasterSeal 754TBG is supplied in various thickness with 2.10 meter width. Lengths can be manufactured to suit specific requirements but is generally 20 meters.

Thickness	1.5mm	2.0mm	3.0mm
Width	2.10m	2.10m	2.10m
Length	20m	20m	20m
Colour	Light Green (surface) / Black (underside)		

APPLICATION GUIDELINES

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

WATERTIGHT SYSTEMS & ENGINEERED SOLUTIONS

Master Builders Solutions Construction Chemicals provide systems and engineered solutions, to suit the structure, at the design and construction stages, to ensure watertightness. 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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TYPICAL PROPERTIES*

Thickness EN 1849-2	2.0mm (± 5%)	3.0mm (± 5%)
Mass per unit area EN 1849-2	2.10kg/m ²	3.15kg/m ²
Tensile strength Longitudinal - EN ISO 527-3 Transverse - EN 12311-2	>10N/mm ² >10N/mm ²	>10N/mm ² >10N/mm ²
Elongation Longitudinal - EN ISO 527-3 Transverse - EN 12311-2	>550% >550%	>550% >550%
Water permeability after 6 hours at 0.5Mpa EN 1928(B) EN 14150	Watertight <10 ⁻⁹ m ³ m ² d ⁻¹	
Static puncture resistance EN ISO 12236 EN 12730	>1.35kN >20kg	>2.2kN >20kg
Tear strength EN ISO 12310-1 ISO 34	>150N >55N/mm ²	>225N >55N/mm ²
Cold bending EN 495-5	< -40°C	
Resistance to perforation by root CEN TS 14416	No perforations	
Resistance to oxidation variation in tensile strength EN 14575	< 25%	
Reaction to fire EN 13501-1	E	
Joint strength EN 12317-2	>600N/50mm	>900N/50mm
Resistance to impact EN 12691	>750mm	>1100mm
Durability After thermal ageing EN 1296 After immersion in chemicals EN 1847	Watertight at 2kPa and 60kPa Watertight at 2kPa and 60kPa	

For fully adhered applications please contact our technical department.

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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Disclaimer: the TUV mark relates to certified management system and not to the product mentioned on this datasheet



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