

MasterSeal[®] 700BT

Transparent synthetic membrane of plasticised PVC

DESCRIPTION

MasterSeal 700BT is a transparent synthetic membrane of plasticised PVC manufactured by co-extrusion.

TYPICAL APPLICATIONS

MasterSeal 700BT can be applied in the following circumstances:

- Below ground Building structures
- Tunnels
- Water exclusion and protection of structures

ADVANTAGES

- Superior mechanical characteristics
- Signal layer shows damage and aids visual inspection on-site
- High mechanical resistance and elasticity
- Long life expectancy
- Resistance to wash-out action
- Resistance to root penetration
- Resistance to bursting at high water pressure
- Double weld allows pressure testing of joints
- May be welded to **MasterSeal 950** water stop to compartmentalise the structure
- Loose laid to act independently of structural movement

PACKAGING AND ROLL SIZES

MasterSeal 700BT 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	2.0	3.0mm
Width	2.10m	2.10m	2.10m
Length	20m	20m	20m
Colour	Transparent		

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

STORAGE

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

MasterSeal® 700BT

PHYSICAL / CHEMICAL PROPERTIES*

Thickness BS EN 1849-2	1.5mm (± 5%)	2.0mm (± 5%)	3.0mm (± 5%)
Specific weight BS EN 1849-2	1.83 kg/m ²	2.44 kg/m ²	3.66 kg/m ²
Tensile strength (L/T) BS EN 12311-2	>16N/mm ²		
Elongation at break (L/T) BS EN 12311-2	>300%		
Resistance to static loading BS EN 12730	>20kg		
Resistance to impact BS EN 12691	≥450mm	≥750mm	≥1200mm
Puncture resistance DIN 16726-5.12	≥1000mm	≥1100mm	≥1800mm
Tear resistance BS EN 12310-1	>357	>500	>750
Joint strength BS EN 12317-2	>750N/50mm	>1100N/50mm	>1500N/50mm
Resistance to static puncture BS EN ISO 12236	> 1650 N	>2250 N	>3700 N
Transparency UNI 8028	≥70%		
Cold bending BS EN 495-5	< -25°C		
Water tightness at 2kPa & 60kPa BS EN 1928 (B)	Watertight		
Durability			
Oxidation variation in tensile properties BS EN 14575	≤ 25%		
Environmental stress cracking ASTM D5397	Not applicable		
Water permeability BS EN 14150	< 10 ⁻⁶ m ³ m ⁻² d ⁻¹		
Resistance to perforation by roots CEN TS 14416	No perforation		
Reaction to fire BS EN 13501-1	E		

For fully adhered applications please contact our technical department.

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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