

MasterSeal 700 BT

Transparent pvc-p membrane for underground works

DESCRIPTION OF PRODUCT

MasterSeal 700 BT is a non-reinforced synthetic single-ply membrane made by co-extrusion from transparent PVC-P. It is highly resistant to attack by micro-organisms and perforation by roots.

MasterSeal 700 BT is not UV resistant.

APPLICATIONS

MasterSeal 700 BT is a transparent synthetic membrane used as a waterproofing layer in civil engineering and building structures such as:

- ☐ Tunnels and galleries
- ☐ Cutandcovertunnels
- ☐ Underground works
- ☐ Coverings of buried structures
- ☐ Underground car parks

The transparency of this membrane allows easy visual inspection of weld quality.

MasterSeal 700 BT 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.

MasterSeal 700 BT is compatible with all the accessories and membranes in the Master Builders Solutions PVC range.

ADVANTAGES

- Excellent weldability
- Facilitates visual inspection of welds
- High resistance to attack by micro-organisms and perforation by roots
- Can be used in the Flag Vacuum system

DESCRIPTION OF PRODUCT

MasterSeal 700 BT is supplied in various thickness with 2.10 meter width. Lengths can be manufactured to suit specific requirements but is generally 20 meters.

Thickness	1.5 mm	2.0 mm	3.0 mm
Number of rolls on each pallet	23	18	11
Roll length / width	20ml (other lengths available on request) /2.10 ml		
Colour	Transparent		

APPLICATION PROCEDURE

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 700 BT

PHYSICAL & CHEMICAL PROPERTIES

	Standard	BT 1.5	BT 2.0	BT 3.0
Thickness (mm)	EN 1849-2	1.5 (±5%)	2.0 (±5%)	3.0 (±5%)
Mass per unit area (kg/m²)	EN 1849-2	1.83	2.44	3.66
Tensile strength(N/mm²)	EN ISO 527-3 EN 12311-2	<16 (L/T)		
Elongation at break (%)	EN ISO 527-3 EN 12311-2	>300 (L/T)		
Water permeability after 6 hrs at 0.5Mpa	EN 1928 (B) EN 14150	Watertight <10-6 m³ m-2 d-1		
Transparency (%)	UNI 8028	≥ 70		
Static puncture resistance (N) (kg)	EN ISO 12236 EN 12730	≥1 650 >20	>2 250 >20	>3 700 >20
Tear strength(N) (N/mm)	EN 12310 -1 ISO 34 sample fig.2	>120 ≥45	>150 ≥45	>225 ≥45
Cold bending	EN 495/5	≤ - 25		
Resistance to perforation by roots	CEN TS 14416	No perforation		
Resistance to oxidation variation in tensile strength (%)	EN 14575	≤ 25		
Reaction to fire	EN 13501-1	E		
Joint strength	EN 12317-2	>75	>1 000	>1 500
Resistance to impact	EN 12691	≥450	≥750	≥1 100
Durability After thermal ageing After immersion in chemicals	EN 1296 EN 1847	Watertight at 2kPa and 60 kPa Watertight at 2kPa and 60 kPa		

NOTE

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

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

QUALITY STATEMENT

All products manufactured by Master Builders Solutions Egypt, or imported from Master Builders Solutions affiliate companies world- wide, are manufactured to procedures certified to conform to the quality, environment, health & safety management systems described in the ISO 9001:2015, ISO 14001:2015 & OHSAS 18001:2007 standards.

* Properties listed are based on laboratory controlled tests.

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