

MasterSeal[®] 707HE

Synthetic membrane of plasticised PVC

DESCRIPTION

MasterSeal 707HE Synthetic membrane of plasticised PVC (two colour version light grey/dark grey) manufactured by co-extrusion. This enables the production, of a single layer of membrane where the two surfaces have different chemical-physical properties. The upper surface (grey and exposed) is characterized by an extremely high resistance to weathering & UV rays, while the lower surface is characterised by an extremely high resistance to puncturing and root penetration.

TYPICAL APPLICATIONS

MasterSeal 707HE can be applied in the following circumstances:

- Water retaining structures
- Water features
- Reservoirs
- Artificial lakes
- Canals

ADVANTAGES

- It has superior mechanical characteristics an extremely high resistance to weathering and ultra violet rays
- High mechanical properties and resistance to puncturing
- Rot-proof
- Dimensionally stable
- Resistant to hot-cold temperature cycles
- Adequate resistance to chemicals when immersed in water
- Resistant to root penetration
- Long life expectancy

PACKAGING AND ROLL SIZES

MasterSeal 707HE is supplied in various thickness with 2.10 meter width and in lengths of 20 meters. Colours available are Light and dark grey.

Thickness (mm)	1.5	2.0	2.2
Width (m)	2.10	2.10	2.10
Length (m)	20	20	20
Colour	Light grey / dark grey		

APPLICATION GUIDELINES

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

WATERTIGHT SYSTEMS AND ENGINEERED SOLUTIONS

Master Builders Solutions Construction Chemicals provide 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 - Preformed membranes
- **MasterSeal** range - Active and passive joint treatment
- **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® 707HE

PHYSICAL / CHEMICAL PROPERTIES*

Thickness UNI EN 1849 - 2	1.5 mm	2.0 mm	2.2 mm
Specific weight UNI EN 1849 - 2	1.95 Kg/m ²	2.60 Kg/m ²	2.96 Kg/m ²
Tensile strength UNI EN ISO 527 - 3	≥ 17.5 N/5cm	≥ 17.5 N/5cm	≥ 17.5 N/5cm
Elongation to break UNI EN ISO 527 - 3	≥ 300 %	≥ 300 %	≥ 300 %
Puncture resistance DIN 16726 - 5.12	≥ 800 mm	≥ 1100 mm	≥ 1400 mm
Cold bending UNI EN 495 - 5	≤ -30°C	≤ -30°C	≤ -30°C
Hydrostatic pressure resistance (6 hours at 5 bar) UNI EN 1928 meth. B	Waterproof	waterproof	Waterproof
Root resistance DIN 4062	No penetration	No penetration	No penetration
Resistance to tearing UNI EN 12310 - 2	≥ 80 N/mm	≥ 80 N/mm	≥ 80 N/mm
Tear Resistance ISO 34 specimen fig. 2	≥ 45 N/mm	≥ 45 N/mm	≥ 45 N/mm
Resistance to static punching (CBR) UNI EN ISO 12236	≥ 1800 N	≥ 2450 N	≥ 2800 N
Resistance to oxidation tensile strength variation UNI EN 14575	< 25 %	< 25 %	< 25 %
Resistance to weathering (12000 h) Tensile strength variation UNI EN 12224	< 25 %	< 25 %	< 25 %
Resistance to leaching UNI EN 14415 meth A & B Tensile strength variation Loss in mass	< 25 % < 5 %	< 25 % < 5 %	< 25 % < 5 %

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.

**Master Builders Solutions
Construction Chemicals LLC**
P.O. Box 37127, Dubai, UAE
Tel: +971 4 8090800
www.master-builders-solutions.com/en-ae

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



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