

MasterSeal[®] 705DW

Synthetic membrane of plasticised PVC

DESCRIPTION

MasterSeal 705DW is a synthetic membrane of plasticised PVC manufactured by co-extrusion. Designed specifically for the waterproofing and lining of tanks and containers intended to hold liquids for human consumption, especially drinking water. It is non-toxic in nature.

TYPICAL APPLICATIONS

MasterSeal 705DW can be applied in the following circumstances:

- Potable water tanks
- Reservoirs and tanks containing liquid food products for human consumption

ADVANTAGES

- Non-toxic. Complies with local and international food and hygiene standards
- It has superior mechanical characteristics
- High mechanical properties and resistance to puncturing
- Rot-proof with a long life expectancy
- UV and light stable
- Long life expectancy

PACKAGING AND ROLL SIZES

MasterSeal 705DW is a white coloured membrane and is supplied in various thickness with 2.10 meter width and in lengths of 20 meters.

Thickness (mm)	1.2	1.5	2.0
Width (m)	2.10	2.10	2.10
Length (m)	20	20	20
Colour	White*		

*on request, available in grey colour

APPLICATION PROCEDURE

Usually applied by Specialist Applicator. Please contact BASF Construction Chemicals for specific application assistance.

WATERTIGHT SYSTEMS & ENGINEERED SOLUTIONS

BASF 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 BASF. 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

STORAGE

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

MasterSeal® 705DW

PHYSICAL/CHEMICAL PROPERTIES*

Thickness UNI EN 1849 - 2	1.2mm	1.5mm	2.0mm
Specific weight UNI EN 1849 - 2	1.54 kg/m ²	1.92 kg/m ²	2.56 kg/m ²
Tensile strength UNI EN ISO 527 - 3	≥ 17 N/mm ²	≥ 17 N/mm ²	≥ 17 N/mm ²
Elongation to break DIN EN ISO 527 - 03	≥ 300%	≥ 300%	≥ 300%
Puncture resistance DIN 16726 – 5.12	≥ 450 mm	≥ 800 mm	≥ 1100 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
Suitable for contact with foodstuffs D. M. 21/3/73	Suitable for Ia; Ib; IVa; IVb type foodstuffs	Suitable for Ia; Ib; IVa; IVb type foodstuffs	Suitable for Ia; Ib; IVa; IVb type foodstuffs
Resistance to tearing UNI EN 12310 - 2	≥ 80 N/mm	≥ 80 N/mm	≥ 80 N/mm
Tear resistance ISO 34 specimen fig. 2	≥ 45	≥ 45	≥ 45
Resistance to oxidation tensile strength variation UNI EN 14575	< 25 %	< 25 %	< 25 %
Resistance to static punching (CBR) UNI EN ISO 12236	≥ 1450	≥ 1800	≥ 2450
Resistance to weathering (12000 h) Tensile strength variation UNI EN 12224	< 25 %	< 25 %	< 25 %
Resistance to leaching UNI EN 14415 method A and B			
Tensile strength variation	< 25 %	< 25 %	< 25 %
Loss in mass	< 5 %	< 5 %	< 5 %

NOTE

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

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

QUALITY AND CARE

All BASF Products are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health and safety standards of ISO 9001 and BASF ESHQ recommendations.

* Properties listed are based on laboratory controlled tests.

® = Registered trademark of the BASF-Group in many countries.

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STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this BASF 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 BASF either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not BASF, are responsible for carrying out procedures appropriate to a specific application.