

# 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 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 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 - 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.

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## PHYSICAL/CHEMICAL PROPERTIES\*

Thickness UNI EN 1849 - 2	1.2mm	1.5mm	2.0mm
Specific weight UNI EN 1849 - 2	1.54 kg/m <sup>2</sup>	1.92 kg/m <sup>2</sup>	2.56 kg/m <sup>2</sup>
Tensile strength UNI EN ISO 527 - 3	> 17 N/mm <sup>2</sup>	> 17 N/mm <sup>2</sup>	> 17 N/mm <sup>2</sup>
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 %

## 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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