

# MasterSeal® 703 RE (Formerly known as Masterpren® RE)

## Synthetic Membrane of Plasticised PVC

### DESCRIPTION OF PRODUCT

**MasterSeal® 703 RE** is a synthetic membrane made by the co-extrusion process. Made of plastisol layers, with different chemical & physical properties and has a layer of glass fibre inserted, for dimensional stability.

### FIELDS OF APPLICATION

**MasterSeal® 703 RE** can be applied in the following circumstances:

- Upstands and exposed areas in conjunction with membranes needing protection
- Covered and inverted roof structures
- Landscaped areas and roof gardens
- Underground Structures

### FEATURES AND BENEFITS

- It has superior mechanical characteristics and is resistant to weathering and ultra violet rays.
- High mechanical properties and resistance to puncturing.
- Rot-proof.
- Vapour permeable.

- Resistance to root penetration.
- If double welded it allows pressure testing of joints.
- Good resistance to hydrocarbons and bacterial attack.
- Long life expectancy.

### APPLICATION PROCEDURE

Synthetic waterproofing membranes applications should be done by approved applicators. For the further information please apply application manual.

### PACKAGING AND ROLL SIZES

Thickness (mm)	1,2	1,5	1,8	2,0	2,4
Width (m)	1,6	1,6	1,6	1,6	1,6
Width (m)	2,10	2,10	2,10	2,10	2,10
Length (m)	20	20	20	20	20
Colour	Light Grey				

### COVERAGE

In order to calculate total consumption of Synthetic waterproofing membranes, it must be added quantity of 5% overlapping and 2-5% of loss depending upon the project conditions on the total application area.

### TECHNICAL DATA

Thickness UNI EN 1849-2	1,2 mm	1,5 mm	1,8 mm	2,0 mm	2,4 mm
Specific Weight UNI EN 1849-2	1,50 kg/m <sup>2</sup>	1,80 kg/m <sup>2</sup>	2,15 kg/m <sup>2</sup>	2,40 kg/m <sup>2</sup>	2,90 kg/m <sup>2</sup>
Tensile Strength UNI EN 12311-2	≥ 9,0 N/mm <sup>2</sup>	≥ 9,0 N/mm <sup>2</sup>	≥ 9,0 N/mm <sup>2</sup>	≥ 9,0 N/mm <sup>2</sup>	≥ 9,0 N/mm <sup>2</sup>
Elongation to Break UNI EN 12311-2	≥ 200%	≥ 200%	≥ 200%	≥ 200%	≥ 200%
Tear Resistance UNI EN 12310-2	≥110 N	≥135 N	≥160 N	≥170 N	≥200 N
Puncture Resistance DIN 16726-5,12	≥ 450 N	≥ 800 N	≥ 900 N	≥ 1000 N	≥ 1500 N
Cold Bending UNI EN 495-5	≤ -25°C	≤ -25°C	≤ -25°C	≤ -25°C	≤ -25°C
Hydrostatic Pressure Resistance (6 hours at 5 bar) UNI EN 1928 meth. B	Waterproof	Waterproof	Waterproof	Waterproof	Waterproof
Dimensional Stability After (6 hours at 5 bar) UNI EN 1928 meth. B	≤ 0,1 %	≤ 0,1 %	≤ 0,1 %	≤ 0,1 %	≤ 0,1 %
Resistance to Artificial Weathering UNI EN 1927	No cracking	No cracking	No cracking	No cracking	No cracking
Root Resistance DIN 4062	No penetration	No penetration	No penetration	No penetration	No penetration
Resistance to Hail on Rigid Substrate UNI EN 13583	≥ 25 m/s	≥ 25 m/s	≥ 25 m/s	≥ 25 m/s	≥ 25 m/s
Thermal Ageing Air After 168 d at 70°C Cold Bending UNI EN 1296	≤ -25°C	≤ -25°C	≤ -25°C	≤ -25°C	≤ -25°C
Peel Resistance of Joints UNI EN 12316-2	150 N/50mm	150 N/50mm	150 N/50mm	150 N/50mm	150 N/50mm
Shear Resistance of Joints UNI EN 12317-2	Breaking out of joint	Breaking out of joint	Breaking out of joint	Breaking out of joint	Breaking out of joint
Resistance to Impact UNI EN 12691	20 mm	20 mm	20 mm	20 mm	20 mm
Resistance to Static Punching UNI EN 12316	≥ 20 kg	≥ 20 kg	≥ 20 kg	≥ 20 kg	≥ 20 kg

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### STORAGE

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

### SHELF LIFE

No shelf life limitation under appropriate storing conditions.

### HEALTH AND SAFETY PRECAUTIONS

Work cloth, protective gloves, goggles and masks concordant with Work and Worker Health rules must be used during the application. Due to irritant effects of the non-cured material, avoid contact to skin and eyes during storing and application. If such a contact occurs, it must be washed by soap and plenty of water. Consult a physician urgently if swallowed. Food and drink must be kept outside the application areas. Must be stored away from children. Please look at the Material Safety Data Sheet for detailed information.

### DISCLAIMER

The technical information given in this publication is based on the present state of our best scientific and practical knowledge. **Master Builders Solutions Yapı Kimyasalları Sanayi ve Ticaret Ltd. Şti.** is only responsible for the quality of the product. **Master Builders Solutions Yapı Kimyasalları Sanayi ve Ticaret Ltd. Şti.** is not responsible for results that may occur because the product is used other than advised and/or out of instructions regarding the place and the method of use. This technical form is valid only till a new version is implemented and nullifies the old ones.

### CONTACT INFORMATION

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**MasterSeal® 703 RE** Technical Data Sheet -Revision  
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