

MasterSeal[®] 704AR

Synthetic membrane of plasticised PVC

DESCRIPTION

MasterSeal 704AR is a synthetic membrane made by the casting process. Made of plastisol layers with different chemical and physical properties and has a layer of 50 g/m² glass fiber inserted for dimensional stability. It also has a 200 g/ m² non-woven polyester felt, to aid bonding to the substrate with an adhesive. A bitumen resistant grade, with a 300 g/ m² non-woven polyester felt, is also available.

TYPICAL APPLICATIONS

MasterSeal 704AR can be applied in the following circumstances:

- Exposed and architectural Roof Structures
- Landscaped areas and Roof Gardens
- Refurbishment of Roofs with existing bitumen waterproofing, using a variant of this membrane.

ADVANTAGES

- It has superior mechanical characteristics and high resistance to weathering and ultra violet rays
- High mechanical properties and resistance to puncturing
- Dimensionally stable
- Resistant to hot-cold temperature cycles
- Custom colours possible to aid architectural design
- Bitumen resistant variant available
- Long life expectancy

PACKAGING AND ROLL SIZES

MasterSeal 704AR is supplied in various thicknesses with 1.60 metre width and in lengths of 20 metres.

| | | | | | |
|----------------|------------|-----|-----|-----|-----|
| Thickness (mm) | 1.2 | 1.5 | 1.8 | 2.0 | 2.4 |
| Width (m) | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |
| Length (m) | 20 | 20 | 20 | 20 | 20 |
| Colour | Light Grey | | | | |

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.

MasterSeal® 704AR

PHYSICAL/CHEMICAL PROPERTIES*

| | | | | | |
|--|------------------------|------------------------|------------------------|------------------------|------------------------|
| 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 | 1.70 kg/m ² | 2.00 kg/m ² | 2.35 kg/m ² | 2.60 kg/m ² | 3.10 kg/m ² |
| Tensile strength UNI EN 12311 – 2 | ≥ 650 N/5 cm | ≥ 700 N/5 cm | ≥ 800 N/5 cm | ≥ 900 N/5 cm | ≥ 1100 N/5 cm |
| Elongation at break UNI EN 12311-2 | ≥ 80 % | ≥ 80 % | ≥ 80 % | ≥ 80 % | ≥ 80 % |
| Tear resistance UNI EN 12310 - 2 | ≥ 150 N | ≥ 170 N | ≥ 180 N | ≥ 200 N | ≥ 220 N |
| Resistance to impact UNI EN 12691 | ≥ 450 mm | ≥ 800 mm | ≥ 900 mm | ≥ 1250 mm | ≥ 1500 mm |
| 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 80°C – UNI EN 1107 - 2 | ≤ 0.1 % | ≤ 0.1 % | ≤ 0.1 % | ≤ 0.1 % | ≤ 0.1 % |
| Resistance to artificial weathering UNI EN 1297 | no cracking | no cracking | no cracking | no cracking | no cracking |
| Root resistance UNI EN 13948 | No penetration | No penetration | No penetration | No penetration | No penetration |
| Resistance to static punching UNI EN 12730 | ≥ 20 kg | ≥ 20 kg | ≥ 20 kg | ≥ 20 kg | ≥ 20 kg |

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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