

# MasterSeal® 700BG

Synthetic membrane of plasticised PVC

## DESCRIPTION

**MasterSeal 700BG** is a synthetic membrane made of plasticised PVC manufactured by twin coloured co-extrusion method.

## TYPICAL APPLICATIONS

**MasterSeal 700BG** can be applied in the following circumstances:

- Below ground Building structures
- Tunnels
- Water exclusion and protection of structures

## ADVANTAGES

- Superior mechanical characteristics
- Signal layer shows damage and aids visual inspection on-site
- High mechanical resistance and elasticity
- Long life expectancy
- Resistance to wash-out action
- Resistance to root penetration
- Resistance to bursting at high water pressure
- Double weld allows pressure testing of joints
- The use of **MasterSeal 950** waterstop provides compartmentalisation
- Loose laid to act independently of structural movement

## PACKAGING AND ROLL SIZES

**MasterSeal 700BG** is supplied in various thickness with 2.10 / 2.15 meter width at 20 meter lengths. Other thickness and lengths can be manufactured to suit specific requirements.

Thickness	1.5mm	2.0	2.2mm	3.0mm
Width	2.10 / 2.15m	2.10 / 2.15m	2.10 / 2.15m	2.10 / 2.15m
Length	20m	20m	20m	20m
Colour	Green / Black			

## 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 watertightness. 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 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® 700BG

## PHYSICAL / CHEMICAL PROPERTIES\*

Thickness UNI EN 1849 - 2	1.5mm (± 5%)	2.0mm (± 5%)	2.2mm (± 5%)	3.0mm (± 5%)
Specific weight UNI EN 1849 - 2	1.950 kg/m <sup>2</sup> (± 5%)	2.600 kg/m <sup>2</sup> (± 5%)	2.860 kg/m <sup>2</sup> (± 5%)	3.900 kg/m <sup>2</sup> (± 5%)
Ultimate Tensile strength UNI EN ISO 527-3				
Transverse	≥14 N/mm <sup>2</sup>	≥14 N/mm <sup>2</sup>	≥14 N/mm <sup>2</sup>	≥14 N/mm <sup>2</sup>
Machine direction	≥15 N/mm <sup>2</sup>	≥15 N/mm <sup>2</sup>	≥15 N/mm <sup>2</sup>	≥15 N/mm <sup>2</sup>
Elongation UNI EN ISO 527 - 3				
Transverse	300% (± 5%)	300% (± 5%)	300% (± 5%)	300% (± 5%)
Machine direction	300% (± 5%)	300% (± 5%)	300% (± 5%)	300% (± 5%)
Dynamic puncture resistance DIN 16726-5.12	≥ 1000 mm	≥ 1100 mm	≥ 1200 mm	≥ 1800 mm
Cold bending UNI EN 495 - 5	≤ -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
Tear resistance ISO 34 Specimen Fig 2	≥45 N/mm	≥45 N/mm	≥45 N/mm	≥45 N/mm
Resistance to static punching (CBR) UNI EN ISO 12236	≥ 1700 N	≥ 2200 N	≥ 2300 N	≥ 3400 N
Resistance to oxidation UNI EN 14575				
Tensile strength variation	< 25%	< 25%	< 25%	< 25%
Root resistance CEN TS 14416	No penetration	No penetration	No penetration	No penetration

For fully adhered applications please contact our technical department.

## 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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