

# MasterSeal<sup>®</sup> 725HC

**SBS self-adhesive bitumen waterproofing membrane for hot climate application**

## DESCRIPTION

**MasterSeal 725HC** is a high quality self-adhesive SBS modified waterproofing sheet membrane reinforced with rot proof reinforcement to enhance the dimensional stability. The self-adhesive bottom surface is laminated with Siliconized release foil or paper and the top surface of the membrane is laminated with a cross-laminated special multi-layer high-density polyethylene film. It is used for a variety of waterproofing and damp proofing applications where the requirements are rigorous.

The **MasterSeal 725HC** range belongs to the MasterSeal group of membranes produced using a special grade of bitumen modified with virgin SBS polymer. The polymer-rich mixture is used to saturate and to coat both sides of reinforcement mat.

## TYPICAL APPLICATIONS

- Flashings to pitched roofs
- As a vapour barrier in both conventional and deck roof systems.
- Robust and ideal waterproofing and damp proofing membrane specially designed for concrete protection.
- Applied as a damp-proof course for tanking below ground structures, foundations, subways and retaining walls.
- Used directly on thermal insulation boards
- Substructure waterproofing to foundations, footings, retaining walls, bridges, tunnels, manholes, etc.
- Under roof shingles in pitched roofs tiles in balconies, terraces, etc.

## ADVANTAGES

- Used as a waterproofing membrane and vapor barrier
- Excellent bonding to vertical and horizontal surfaces
- Improved heat stability

- Good flexibility at low temperatures
- Excellent resistance to weather, and Ultraviolet radiation
- Simple application without the need for additional tools
- Quick and easy installation

## PACKAGING AND ROLL SIZES

**MasterSeal 725HC** is supplied in rolls as follows:

Thickness	1.5mm	1.6mm	1.8mm	2.0mm
Width	1m	1m	1m	1m
Length	15m	15m	15m	15m

\*Available in 20m, on request only.

## APPLICATION GUIDELINES

Substrate must adequately cured, clean and free of losing particles or debris; surface must be primed with **MasterSeal P 700**.

Installation of rolls shall be fully bonded onto the substrate, overlap of head laps must follow water path (avoiding contrary gaps, possible source of water concentration).

For roofing applications, the membrane will be terminated on the top by fixing an aluminum flashing pointed with **MasterSeal GG 470** polysulfide joint sealant.

For a double layer system, whether it is fully or partially bonded, the second layer shall be fully bonded to the first layer.

When the membrane is applied on pipes, the joint of the membrane with the pipe shall be sealed with **MasterSeal 621**.

It shall be applied from professional installers. Please contact Master Builders Solutions Construction Chemicals for specific application assistance.

# MasterSeal<sup>®</sup> 725HC

## TYPICAL PROPERTIES\*

Characteristics	Test Method	Results
Flexibility at low temperature	ASTM D1970	-32°C
Heat resistance @ 90°C / 2 h	UEAtc	No flow
Elongation (L / T) Compound	ASTM D412	>1000%
Softening point	ASTM D36	110°C
<b>Mechanical Properties (Film)</b>		
Tensile Strength (L/T)	ASTM D638	50 / 50 (MPa)
Elongation (L/T)	ASTM D638	600/600%
Tear Resistance	ASTM D1004	250 / 250 N/mm
<b>Mechanical Properties (Membrane)</b>		
Adhesion to self	ASTM D1000	2.06 N/mm
Water vapor transmission after 24 h	ASTM E96	0.18 g/m <sup>2</sup>
Puncture Resistance	ASTM E154	300 N @ 65 mm N/mm
Water absorption	ASTM D570	0.1% @ 24 h
		0.86% @ 35 days
Chemical Resistance	ASTM D543	No softening, no loss of adhesion
Crack Cycling	ASTM C836	Unaffected after 100 cycles of 3 mm movement
Hydrostatic Head Resistance	ASTM D5385	>61 m
Pliability	ASTM D146	No cracks when bent 180°C over a 25 mm mandrel @ -32°C
Application Temperature	-	+5 to +50°C

## STORAGE AND SHELF LIFE

Store out of direct sunlight, clear of the ground and on pallets. Keep rolls upright on pallets under shade. **MasterSeal 725HC** pallets should not be stacked one over the other. The shelf life is 12 months when stored as above.

## 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.

MBS\_CC-UAE/Top\_SL\_725HC\_09\_18/12\_19/v3/02\_20/v4/07\_20

## 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.

**Master Builders Solutions**  
**Construction Chemicals LLC**  
P.O. Box 37127, Dubai, UAE  
Tel: +971 4 8090800  
[www.master-builders-solutions.com/en-ae](http://www.master-builders-solutions.com/en-ae)

**Disclaimer:** the TUV mark relates to certified management system and not to the product mentioned on this datasheet



A brand of  
**MBCC GROUP**