

MasterSeal® 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 polymeric foil. 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.

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.

FEATURES AND BENEFITS

- 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 Ultra violet 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
Top Surface	Cross laminated polymeric foil			

APPLICATION PROCEDURE

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). In case of single-layer system, it is advisable increase head overlapping area up until 15-20 cm.

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 BASF Construction Chemicals for specific application assistance.

MasterSeal[®] 725HC

TYPICAL PROPERTIES*

Characteristics	Test Method	Results
Flexibility at low temperature	ASTM D1970	-32°C
Heat resistance @ 90°C / 2 hours	UEAtc	No flow
Elongation (L / T) Compound	ASTM D412	>1000%
Softening point	ASTM D36	110°C
Mechanical Properties (Film)		
Tensile Strength (L/T)	ASTM D638	50 / 50 (MPa)
Elongation (L/T)	ASTM D638	600/600%
Tear Resistance	ASTM D1004	250 / 250 N/mm
Mechanical Properties (Membrane)		
Adhesion to self	ASTM D1000	2.06 N/mm
Water vapor transmission after 24 hours	ASTM E96	0.18 g/m ²
Puncture Resistance	ASTM E154	300 N@65mm N/mm
Water absorption	ASTM D570	0.1% @ 24hrs
		0.86% @ 35days
Chemical Resistance	ASTM D543	No softening, no loss of adhesion
Crack Cycling	ASTM C836	Unaffected after 100 cycles of 3mm movement
Hydrostatic Head Resistance	ASTM D5385	>61m
Pliability	ASTM D146	No cracks when bent 180°C over a 25mm mandrel @ -32°C
Hydrostatic Resistance	ASTM D5385	>60m
Application Temperature	-	+5 to +50°C

STORAGE

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.

NOTE

Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local BASF Construction Chemicals representative.

BASF reserves the right to have the true cause of any liability determined by accepted test methods.

QUALITY AND CARE

All products originating from BASF's 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, ISO 14001 and OHSAS 18001.

* Properties listed are based on laboratory controlled tests.

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We create chemistry

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STATEMENT OF RESPONSIBILITY

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NOTE

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