MasterSeal 725 SA

SBS self-adhesive bitumen waterproofing membrane for sub-structures and deck application

MATERIAL DESCRIPTION

MasterSeal 725 SA is self-adhesive bitumen waterproofing membrane, industrially manufactured by impregnation of the reinforcement with the waterproofing compound based on distilled bitumen modified with thermoplastic elastomeric polymers of the latest generation, which gives to the compound superior technical characteristics and adhesive characteristic.

The composite reinforcement, made of nonwoven spunbond polyester in combination with fiberglass, conveys high mechanical characteristics, excellent dimensional stability and elastic performance. Shaping of sheets, straightness, dimensional and surface uniformity are accomplished by hot calendering of the mass at hot melt fluid state.

The upper surface is coated with nonwoven polypropylene and selvedge protected by anti-adhesive removable film for easy welding overlap. The lower surface is protected with an anti-adhesive removable film.

FIELDS OF APPLICATION

MasterSeal 725 SA is a high-performance membrane. It is particularly suitable as under layer in multi-layer waterproofing systems, with all membrane types; it is very appropriate where the flame is not allowed for safety reasons.

General roofing, discontinuous roofs, on or under floors or ground slabs, wall constructions, are valid examples of the design application of this product. It is not suitable for roof gardens. It can be applied on to every substrate (concrete, masonry, steel, tension structures, wood, cellular insulation panel, membrane, etc.).

The excellent mechanical characteristics and high level thermo-dynamic stability make it suitable for any climate conditions and all the situations where a barrier against water is required.

METHOD OF INSTALLATION

The high self-adhesive properties of the waterproofing compound allow the application without flame, simply removing the lower anti-adhesive removable film. In particular situations, it could be applied with hot air generator.

The application of the membrane must be carried in good weather conditions, when the temperature is over 10° C, and after the substrate has been adequately cleaned and prepared.

PACKAGING AND STORAGE

The product is packed as standing rolls on wooden pallets wrapped with thermo shrinking protective hoods. Rolls must be stored in the upright position, without stacking the pallets to avoid deformations which can compromise the correct application of the membrane. The product must be stored indoor, protected from heat and frost.

CERTIFICATION AND STANDARD

- EN13707
- EN13969 - 1381 – 1381 – CPR - 415

APPLICATION PROCEDURE

Substrate must be adequately cured, clean and free of loose 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 to increase head overlapping area up until 15-20 cm.

The membranes applied on the vertical surface shall be protected immediately from the ongoing site activities or from sharp aggregates during backfilling with a tough, weather, warp and rot proof asphaltic protection board of suitable thickness.

When the membrane is applied on pipes, the joint of the membrane with the pipe shall be sealed with **MasterSeal 620**.

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

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

INSPECTION AND MAINTENANCE
We recommend inspections are carried out annually to confirm counterflashing, ensure drains are clear of blockages and to observe if any mechanical damage has occurred. Issues should be reported and rectified immediately.

Our MasterSeal Bitumen membrane range is designed to last more than 10 years with the correct maintenance regime in place. Contact your local Master Builders Solutions representative

NOTE
Technical support, where provided, does not constitute supervisory responsibility. For additional information contact your local MB Construction Chemicals Solutions South Africa (Pty) Ltd representative. MB Construction Chemicals Solutions South Africa (Pty) Ltd shall not be liable for technical advice provided.

MB Construction Chemicals Solutions South Africa (Pty) Ltd reserves the right to have the true cause of any difficulty determined by accepted test methods. Undertaking such tests is not, and shall not be deemed to be, an admission of liability or an assumption of any risk, loss, damage or liability.

QUALITY AND RESPONSIBLE CARE
All products originating from MB Construction Chemicals Solutions South Africa (Pty) Ltd are manufactured under a management system independently certified to conform to the requirements of the quality standards ISO 9001, environmental and occupational health and safety standards.

* Properties listed are based on laboratory controlled tests.

DISCLAIMER

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TYPICAL PROPERTIES*

	Norm	Value	Unit	Tolerance
Thickness	EN1849-1:1999	1,5 / 2	(mm)	±0,2
Roll length	EN1848-1:1999	20 / 20	(m)	-1%
Roll width	EN1848-1:1999	1 / 1	(m)	-1%
Straightness	EN1848-1:1999	Passed	-	20 mm / 10 m
Flexibility at low temperature (pliability)	EN1109:2013	-25	(°C)	≤
Heat flow resistance	EN1110:2010	90	(°C)	≥
Watertightness	EN1928-B:2000	200	(kPa)	≥
Water vapour transmission properties	EN1931:2000	20.000	(μ)	-
		M.d. C.d.		
Tensile properties: maximum tensile strength	EN12311-1:1999	500 / 450	(N/50 mm)	-20%
Tensile properties: elongation at break	EN12311-1:1999	40 / 40	(%)	-15
Resistance to tearing (nail shank)	EN12310-1:1999	100 / 100	(N)	-30%
Dimensional stability	EN1107-1:1999	±0,3 / ±0,3	(%)	≤
Shear resistance of joints	EN12317-1:1999	500 / 450	(N/50 mm)	-20%
Resistance to static puncture	EN12730-A:2015	NPD		
Resistance to impact	EN12691-A:2006	NPD		
External fire performance (note 1)	EN1187:2012/EN13501-5:2005 +A1:2009	F_{roof}	Class	-
Reaction to fire	EN11925-2:2010/EN13501-1:20 07+A1:2009	NPD		
Root resistance	EN13948:2007	NPD		
Visible defects	EN1850-1:2001	Passed	-	-
Durability: Flexibility at low temperature after artificial ageing	EN1296:2000/EN1109:2013	-25	(°C)	+15
Durability: Flow resistance at elevated temperature after artificial ageing	EN1296:2000/EN1110:2010	NPD		
Durability: Watertightness after artificial ageing	EN1296:2000/EN1928-B:2000	Passed	(kPa)	≥60
Durability: Watertightness against chemicals	EN1296:2000/EN1847:2009	NPD		

NE - Not relevant, NPD - No performance determined.