

MasterSeal[®] 727ST

SBS elastomeric bitumen-based torch-applied waterproofing membrane with non-woven polyester reinforcement

DESCRIPTION

MasterSeal 727ST is an elastomeric modified bitumen membrane used for various waterproofing applications. It is manufactured in a high-tech calendaring process, which involves the saturation and coating of a polyester carrier with a SBS elastomer-modified bitumen compound.

The SBS modifiers are used to improve the thermal, chemical and ageing properties of the bitumen compound. The mechanical characteristics such as tensile strength, elongation and tear resistance are boosted by the non-woven polyester carrier, which acts as a reinforcement to the product.

APPLICATIONS

MasterSeal 727ST is used for a wide variety of waterproofing requirements and in applications subject to high mechanical stresses, such as:

- Deck waterproofing
- Foundations and underground structures
- Slab on grade

FEATURES AND BENEFITS

- Superior chemical resistance to alkaline solutions, light acidic solutions and bacteria
- Superior thermal resistance under a wide range of temperature fluctuation
- Impermeable to water
- Outstanding performance at high temperature and good at low temperature
- Excellent adhesion to any surface
- Applicable for above and below grades usages.

SURFACE FINISH

The upper and lower surfaces of the membrane are finished with polyethylene film.

PACKAGING AND ROLL SIZES

MasterSeal 727ST is supplied in rolls as follows:

Thickness	3mm	4mm
Width	1m	1m
Length	10m	10m
Reinforcement	180g/m ²	200g/m ²

APPLICATION PROCEDURE

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

Membrane can be either fully bonded or partially bonded onto the substrate when installed as underlayment; when installed as single-layer system it shall be fully bonded onto the substrate.

For below ground applications, the membranes applied on the vertical surface shall be protected immediately from ongoing site activities or from sharp aggregates during backfilling with **MasterSeal 720PB** a tough, weather, warp and rot proof asphaltic protection board.

For roofing applications, the membrane will be terminated on the top by fixing an aluminum flashing or with **MasterSeal 955 FLASHSEAL** tape.

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

To ensure overlap openings do not go against the flow of water, membrane installation shall start on the lowest point and continue towards the highest point of the slope.

MasterSeal 727ST should be applied by suitably qualified, trained contractors. Contact your local Master Builders Solutions Construction Chemicals representative for qualified installers in your region.

MasterSeal® 727ST

TYPICAL PROPERTIES*

Characteristics	Test Methods	Result 3mm	Result 4mm
Reinforcement		180g/m ²	200g/m ²
Cold temperature flexibility	EN 1109	-10°C to -12°C	-10°C to -12°C
Water tightness Method A	EN 1928:2000	Pass (60 kPa)	Pass (60 kPa)
Tensile strength (max) Longitudinal	EN 12311-1 : 1999	800N/5cm (±20%)	900N/5cm (±20%)
Tensile strength (max) Transverse	EN 12311-1 : 1999	550N/5cm (±20%)	650N/5cm (±20%)
Elongation at break Longitudinal	EN 12311-1 : 1999	40% (±15)	40% (±15)
Elongation at break Transverse	EN 12311-1 : 1999	45% (±15)	45% (±15)
Resistance to static loading	UEAtc-83	25kg (no sign of leakage)	25kg (no sign of leakage)
Resistance to impact	EN 12691	1000mm	1250mm
Tear resistance Transverse	EN 12310-1 : 1999	150N	200N
Dimensional stability	EN 1107-1	+0.7%	+0.7%
Flow resistance at elevated temperature	UEAtc-83	100°C (No sign of sagging or dripping)	100°C (No sign of sagging or dripping)
External fire performance	EN 13501-5	F Roof	F Roof
Reaction to fire	EN 13501-1	F	F

Tolerances for all the above values according to relevant UEAtc guidelines.

STORAGE

All modified bitumen waterproofing membrane should be stored in upright position in dry, flat, ventilated and away from direct sunlight.

NOTE

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

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

QUALITY AND CARE

All products originating from Master Builders Solutions'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 9001:2015, ISO 14001:2015 & OHSAS 18001:2007 standards.

* Properties listed are based on laboratory controlled tests.

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STATEMENT OF RESPONSIBILITY

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NOTE

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