

# MasterSeal<sup>®</sup> 729ST

## SBS ELASTOMERIC BITUMEN-BASED TORCH-APPLIED WATERPROOFING MEMBRANE WITH NON-WOVEN POLYESTER REINFORCEMENT

### DESCRIPTION

**MasterSeal 729ST** is an elastomeric modified-bitumen waterproofing torch-applied membrane. SBS polymers ensure extraordinary flexibility along with great resistance against atmospheric agents and long lasting durability at environment temperature down to -20°C.

### APPLICATIONS

**MasterSeal 729ST** is used for a wide variety of waterproofing requirements and in applications where the membrane is subject to constant movement and high mechanical stresses, such as:

- Deck slabs
- 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
- Absolute impermeability 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 729ST** is supplied in rolls as follows:

Thickness	4mm
Width	1m
Length	10m
Reinforcement	200g/m <sup>2</sup>

### 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 729ST** should be applied by suitably qualified, trained contractors. Contact your local Master Builders Solutions Construction Chemicals representative for qualified installers in your region.

# MasterSeal® 729ST

## TYPICAL PROPERTIES\*

Characteristics	Test Methods	Result
Reinforcement		200g/m <sup>2</sup>
Cold temperature flexibility	ASTM D5147 / EN 1109	-20°C
Softening point (R&B)	ASTM D36	110°C
Tensile strength (max) Longitudinal	EN 12311-1 : 1999	950N/5cm (± 20%)
Tensile strength (max) Transverse	EN 12311-1 : 1999	650N/5cm (± 20%)
Elongation at break Longitudinal	EN 12311-1 : 1999	45% (± 15)
Elongation at break Transverse	EN 12311-1 : 1999	50% (± 15)
Resistance to static loading	UEAtc-83	≥20kg No sign of leakage
Resistance to impact	EN 12691	≤1250mm
Tear resistance Longitudinal	EN 12310-1 : 1999	≥200N/mm
Tear resistance Transverse	EN 12310-1 : 1999	≥225N/mm
Flow resistance at elevated temperature	UEAtc-83	100°C No sign of sagging or dripping
Water absorption	ASTM D5147	≤0.15%

Given tests results based on 4mm thick specimen

### 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

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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