

# MasterSeal 729 STR

**SBS elastomeric bitumen-based torch-applied waterproofing membrane with anti-root property**

## MATERIAL DESCRIPTION

**MasterSeal 729 STR** is an elastomeric modified bitumen membrane used for waterproofing roof gardens and green areas. The anti-root compound allows the membrane to resist the piercing force created by the growth of roots. This compound, thanks to its special formula, features an excellent resistance to UV ray ageing and allows the membrane to be walked on during application.

## APPLICATIONS

**MasterSeal 729 STR** is used for a wide variety of waterproofing applications where resistance to root penetration, high mechanical stresses and constant movement are required such as:

- Roof gardens & green areas
- Terraces
- Sloped and flat roofs

## FEATURES AND BENEFITS

- Excellent resistance to root penetration.
- 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.

## PACKAGING AND ROLL SIZES

**MasterSeal 729 STR** 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.

The membranes applied on the vertical surface shall be protected immediately from ongoing site activities or from sharp aggregates during backfilling with protection board. Please contact Master Builders Solutions Technical Services for proprietary protection board.

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

## STORAGE

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

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## 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.

## TYPICAL PROPERTIES\*

Characteristics	Test Methods	Result
Reinforcement		200g/m <sup>2</sup>
Cold temperature flexibility	EN 1109	-20°C
Tensile strength (max) Longitudinal	EN 12311-1	950N/5cm (± 20%)
Tensile strength (max) Transverse	EN 12311-1	650N/5cm (± 20%)
Elongation at break Longitudinal	EN 12311-1	45% (± 15)
Elongation at break Transverse	EN 12311-1	50% (± 15)
Resistance to static loading	EN 12730	≥20kg
Resistance to impact	EN 12691	≤1250mm
Tensile tearing strength Longitudinal	ASTM D5147 D4073	700N
Tensile tearing strength Transverse	ASTM D5147 D4073	500N
Flow resistance at elevated temperature	EN 1110	110°C
Dimensional stability	EN 1107-1	± 0.7%
External Fire Performance	EN 13501-5	F <sub>Roof</sub>
Reaction to Fire	EN 13501-1	F
Water tightness Method A	EN 1928:2000	Pass (60 kPa)

Given tests results based on 4mm thick specimen.

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