

# MasterSeal<sup>®</sup> 734AT

**APP plastomeric polymer-modified bitumen based torch-applied waterproofing membrane with non-woven polyester reinforcement**

## DESCRIPTION

**MasterSeal 734AT** is a plastomeric 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 an APP polymer-modified bitumen compound. The polymer additives 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.

## TYPICAL APPLICATIONS

**MasterSeal 734AT** is used for a wide variety of waterproofing requirements and in applications subject to high mechanical stresses, such as:

- Roofing or re-roofing for single or multi-layer system
- Sloped and flat roofs
- Foundations and underground structures
- Slab on grade

## ADVANTAGES

- Impermeable to water
- High chemical resistance to alkaline solutions, light acidic solutions and bacteria
- Thermal resistance under a wide range of temperature fluctuation
- Ease of adhesion to a wide variety of surfaces
- Applicable for above and below grade usages

## PACKAGING AND ROLL SIZES

**MasterSeal 734AT** is supplied in rolls as follows:

Thickness	4mm	4mm	4mm
Width	1m	1m	1m
Length	10m	10m	10m
Reinforcement	160g/m <sup>2</sup>	180g/m <sup>2</sup>	200g/m <sup>2</sup>

## APPLICATION GUIDELINES

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 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 734AT** should be applied by suitably qualified, trained contractors. Contact your local Master Builders Solutions Construction Chemicals representative for qualified installers in your region.

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## TYPICAL PROPERTIES\*

Characteristics	Test Methods	Results		
		160g/m <sup>2</sup>	180g/m <sup>2</sup>	200g/m <sup>2</sup>
Reinforcement				
Cold temperature flexibility	EN 1109	-2°C to -5°C	-2°C to -5°C	-2°C to -5°C
Water tightness Method A	EN 1928:2000	Pass (60 kPa)	Pass (60 kPa)	Pass (60 kPa)
Tensile strength (max) Longitudinal	EN 12311-1	750N/5cm (±20%)	850N/5cm (±20%)	950N/5cm (±20%)
Tensile strength (max) Transverse	EN 12311-1	500N/5cm (±20%)	650N/5cm (±20%)	700N/5cm (±20%)
Elongation at break Longitudinal	EN 12311-1	40% (±15)	45% (±15)	40% (±15)
Elongation at break Transverse	EN 12311-1	40% (±15)	50% (±15)	45% (±15)
Puncture resistance	UEAtc -83	25kg	25kg	25kg
Dimensional stability	EN 1107-1	±0.2% (longitudinal)	±0.2% (longitudinal)	±0.7%
Heat flow resistance	UEAtc -83	100°C	100°C	100°C
Reaction to fire	EN 13501-1	F	F	F

Given tests results based on 4mm thick specimen

## SURFACE FINISH

The upper surface of the membrane is finished with polyethylene film / slates.

The lower surface of the membrane is finished with polyethylene film.

## STORAGE

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

## QUALITY AND CARE

All products originating from Master Builders Solutions 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 and ISO 14001.

\* Properties listed are based on laboratory controlled tests.

® = Registered trademark of the MBCC Group in many countries.

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## STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this Master Builders Solutions publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

## 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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