

# 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.

### 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

### FEATURES AND BENEFITS

- 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.

### SURFACE FINISH

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

### PACKAGING AND ROLL SIZES

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

# MasterSeal® 734AT

## TYPICAL PROPERTIES\*

Characteristics	Test Methods	Result
Reinforcement		200g/m <sup>2</sup>
Cold temperature flexibility	EN 1109	-2°C to -5°C
Water tightness Method A	EN 1928:2000	Pass (60 kPa)
Tensile strength (max) Longitudinal	EN 12311-1	950N/5cm (±20%)
Tensile strength (max) Transverse	EN 12311-1	700N/5cm (±20%)
Elongation at break Longitudinal	EN 12311-1	40% (±15)
Elongation at break Transverse	EN 12311-1	45% (±15)
Resistance to static loading	EN 12730	20kg
Resistance to impact	EN 12691	1250mm
Dimensional stability	EN 1107-1	±0.7%
Flow resistance at elevated temperature	EN 1110	120°C
External fire performance	EN 13501-5	FRoof
Reaction to fire	EN 13501-1	F

Given tests results based on 4mm thick specimen

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

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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