

MasterSeal[®] 734 AT

APP plastomeric bitumen torch-applied membrane with stabilized non-woven polyester felt reinforcement

DESCRIPTION

MasterSeal 734 AT 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. Meanwhile, 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

- Ideal for general use in single or multi-layer systems.
- Low slope concrete roofs, balconies, multi-storey car parks, lining sewerage canals.
- Sub-grade structures.
- Concrete or cemented flat surfaces that require waterproofing.

FEATURES AND BENEFITS

- High softening point and excellent behavior under high temperatures, making it ideal for application during the summer
- Great flexibility
- Excellent durability and ageing
- Resistance to extremely high and low temperatures
- Maximum puncturing resistance (static and dynamic)
- High tear resistance
- Good dimensional stability

APPLICATIONS

Underground structures and roofs with heavy protection or paving.

- Underlays have reinforcements with different benefits and with upper side sanded finishing.

- They are not U.V. resistant so they cannot be exposed to weathering after installation.
- It comes with polyethylene film finishing on both sides.

PACKAGING AND ROLL SIZES

MasterSeal 734AT is supplied in rolls as follows:

Thickness	4mm	3mm
Width	1m	1m
Length	10m	10m

CERTIFICATION AND STANDARDS

EN13707; EN13969 - 0120 - GB 06/69407;
EN13970 - 1211 - 51-08-0011/003-2ec;
EN13970 – 1211-Ta51267/06ea

APPLICATION PROCEDURE

Substrate must adequately cured, clean and free of loose particles or debris; surface must be primed with **MasterSeal P 700**. Membrane shall be either full bonded or partially bonded onto the substrate when installed as underlayment; when installed as single-layer system shall be fully bonded onto the substrate and it is advisable to increase head overlapping area up until 15-20 cm. When the membrane is applied on pipes, the joint of the membrane with the pipe shall be sealed with **MasterSeal 621**. For roofing applications, the membrane will be terminated on the top by fixing an aluminum flashing sealing with **MasterSeal 955 FLASHSEAL** tape. Membrane shall be fully bonded onto underlay when installed as second layer in double-layer systems. Head laps must follow water path (avoiding contrary gaps, possible source of water concentration).

It shall be applied by professional installers. Please contact BASF Construction Chemicals for specific application assistance.

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TYPICAL PROPERTIES*

Characteristics	Test Methods	Results
External fire performance	EN1187:2012 / EN13501-5:2005+A1:2009	Froof
Reaction to fire	EN11925-2:2010 / EN13501-1:2007+A1:2009	F Class
Water tightness	EN1928-B:2000	Pass (200 kPa/24h)
Maximum tensile strength (L x T)	EN12311-1:1999	700 / 500 (-20%) N/50mm
Elongation (L x T)	EN12311-1:1999	35 / 35 (-15%)
Root penetration resistance	EN13948:2007	NPD
Resistance to static puncture	EN12730-A:2015	NPD
Impact resistance	EN12691-A:2006	NPD
Tear strength (nail) (L x T)	EN12310-1:1999	150 / 150 (-30%) N
Joint shear resistance (L x T)	EN12317-1:1999	700 / 550 (-20%) N/50mm
Flexibility at low temperature	EN1109:2013	≤ -10°C
Water tightness durability against chemical agents	EN1296:2000/EN1847:2009	NPD
Visible defects	EN1850-1:2001	Pass
Straightness	EN1848-1:1999	Pass (20 mm / 10 m)
Thickness	EN1849-1:1999	4mm (±0.2%)
Dimensional stability	EN1107-1:1999	≤ (±0.3 / ±0.3%)
Heat flow resistance	EN1110:2010	≥ 120°C
Water vapour transmission properties	EN1931:2000	92,000μ

NPD - No performance determined

STORAGE

Store out of direct sunlight, clear of the ground and on pallets.

QUALITY AND RESPONSIBLE CARE

All products originating from BASF Construction Chemicals South Africa are manufactured under a management system independently certified to conform to the requirements of the quality (ISO 9001), environmental and occupational health & safety standards.

* Properties listed are based on laboratory controlled tests.

® = Registered trademark of the BASF-Group in many countries

STATEMENT OF RESPONSIBILITY

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NOTE

Field service where provided does not constitute supervisory responsibility. Suggestions made by BASF either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not BASF, are responsible for carrying out procedures appropriate to a specific application.

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