# MasterSeal 735 AT

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

### MATERIAL DESCRIPTION

**MasterSeal 735 AT** is a plastomeric modified bitumen waterproofing membrane (APP), industrially manufactured by impregnation of the reinforcement with the waterproofing compound-based on distilled bitumen modified with polyolefin polymers, which gives to the compound superior technical characteristics.

The composite reinforcement, made of nonwoven polyester in combination with fiberglass, conveys good mechanical characteristics, excellent dimensional stability and elastic performance. Shaping of sheets, straightness, dimensional and surface uniformity are accomplished by hot calendering of the mass at hot melt fluid state.

The upper surface is protected by a thin layer of talc. The lower surface is coated with a thermofusible polyolefin film.

### FIELD OF APPLICATIONS

**MasterSeal 735 AT** is an excellent performance membrane. It is particularly suitable as top layer and as under layer in multi-layer waterproofing systems, with compatible membranes.

General roofing, vehicles parking roofs, foundations, on or under floors or ground slabs, wall constructions, are valid examples of the design application of this product. It is not suitable for roof gardens. It can be applied onto every substrate (concrete, masonry, steel, wood, insulation panel, membrane, etc.) and under heavy protection.

The excellent mechanical characteristics and high level thermo-dynamic stability make it suitable for any climate conditions and all the situations where a barrier against water is required.

### METHOD OF INSTALLATION

The excellent thermoplastic properties of the waterproofing compound allow the application with torchon system or hot air generator. In particular situations, it could be applied with appropriate sealants or mechanical fastenings.

The application of the membrane must be carried in good weather conditions and after the substrate has been adequately cleaned and prepared.

### PACKAGING AND STORAGE

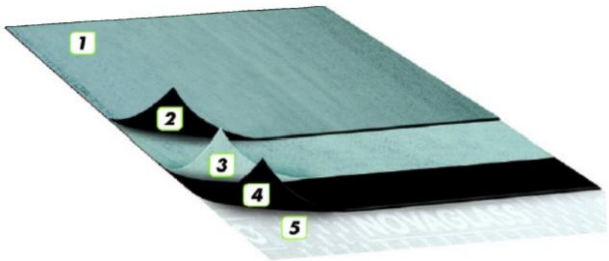
The product is packed as standing rolls on wooden pallets wrapped with thermo shrinking protective hoods. Rolls must be stored in the upright position, without stacking the pallets to avoid deformations which can compromise the correct application of the membrane. The product must be stored indoor, protected from heat and frost.

### INTENDED USE OR USES

Flexible sheets for waterproofing. Reinforced bitumen sheets for roof waterproofing.

Flexible sheets for waterproofing. Bitumen damp proof sheets including bitumen basement tanking sheets.

1. Anti-adhesive surface
2. Waterproofing mass
3. Reinforcement
4. Waterproofing mass
5. Torch-off film



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### APPLICATION PROCEDURE

Substrate must adequately cured, clean and free of losing particles or debris; surface must be primed (suggested solvent-base bituminous primer).

Membrane shall be either full bonded or partially bonded onto the substrate when installed as underlayment; when installed as single-layer system shall be full bonded onto the substrate and it is advisable increase head overlapping area up until 15-20 cm.

Membrane shall be full 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 from professional installers. Please contact Master Builders Solutions for specific application assistance.

### INSPECTION AND MAINTENANCE

We recommend inspections are carried out annually to confirm counterflashing, ensure drains are clear of blockages and to observe if any mechanical damage has occurred. Issues should be reported and rectified immediately.

Our MasterSeal Bitumen membrane range is designed to last more than 10 years with the correct maintenance regime in place. Contact your local Master Builders Solutions representative.

### CERTIFICATION AND STANDARD

- EN13707
- EN13969 – 1381-1381-CPR-415

### 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.

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### TECHNICAL DATA*

| | Norm | Value | Unit | Tolerance |
|---|---|---|---|---|
| Thickness | EN1849-1:1999 | 3 / 4 | (mm) | ±0,2 |
| Roll length | EN1848-1:1999 | 10 / 10 | (m) | -1% |
| Roll width | EN1848-1:1999 | 1 / 1 | (m) | -1% |
| Straightness | EN1848-1:1999 | Passed | - | 20 mm / 10 m |
| Flexibility at low temperature (pliability) | EN1109:2013 | -10 | (°C) | ≤ |
| Heat flow resistance | EN1110:2010 | 120 | (°C) | ≥ |
| Watertightness | EN1928-B:2000 | 100 | (kPa) | ≥ |
| Water vapour transmission properties | EN1931:2000 | 20.000 | (μ) | - |
| | | M.d.C.d. | | |
| Tensile properties: maximum tensile strength | EN12311-1:1999 | 500 / 350 | (N/50 mm) | -20% |
| Tensile properties: elongation at break | EN12311-1:1999 | 40 / 40 | (%) | -15 |
| Resistance to tearing (nail shank) | EN12310-1:1999 | 150 / 150 | (N) | -30% |
| Dimensional stability | EN1107-1:1999 | ±0,3 / ±0,3 | (%) | ≤ |
| Shear resistance of joints | EN12317-1:1999 | 500 / 350 | (N/50 mm) | -20% |
| Resistance to static puncture | EN12730-A:2015 | NPD | | |
| Resistance to impact | EN12691-A:2006 | NPD | | |
| External fire performance (note 1) | EN1187:2012/EN13501-5:2005 +A1:2009 | $F_{roof}$ | Class | - |
| Reaction to fire | EN11925-2:2010/EN13501-1:20 07+A1:2009 | E | Class | - |
| Root resistance | EN13948:2007 | NPD | | |
| Visible defects | EN1850-1:2001 | Passed | - | - |
| Durability: Flexibility at low temperature after artificial ageing | EN1296:2000/EN1109:2013 | NPD | | |
| Durability: Flow resistance at elevated temperature after artificial ageing | EN1296:2000/EN1110:2010 | 110 | (°C) | -10 |
| Durability: Watertightness after artificial ageing | EN1296:2000/EN1928-B:2000 | Passed | (kPa) | ≥ 60 |
| Durability: Visual defects after artificial ageing | EN1297:2004/EN1850-1:1999 | Passed | - | Passed |
| Durability: Watertightness against chemicals | EN1296:2000/EN1847:2009 | NPD | | |