



BICROELAST EMP

Polyester based SBS Modified Torch-On Underlays

Introduction

BICROELAST EMP membrane is economical, high performance polyester reinforced waterproofing material designed for use in high performance built up systems to suit requirements of both new build and remedial roofing applications.

Product Description

BICROELAST EMP is polyester based underlay saturated and coated with high quality SBS modified bitumen. The membrane is protected with thermofusible film on its lower side and fine-grained sand on the upper side, making the membrane suitable for both Torch – On and Hot or Cold mastics application.

BICROELAST polyester reinforced membrane is reliable, environmentally friendly material with excellent performance and characteristics. These products can be applied to all suitable types of substrates as underlays in built up waterproofing systems.

Product Features

- Excellent low temperature flexibility at -10°C
- Guided (snowflake print) rapid melt film for accurate and consistent Torch -On application
- High resistance to foot marking
- High puncture resistance
- Excellent quality polyester reinforcement
- SBS modified bitumen binder formulated to ensure high performance

Application

BICROELAST polyester reinforced materials can be used as underlays in built up waterproofing systems or as vapour barriers on new built or refurbished flat roofs as well as part of overlay systems to existing asphalt waterproofing. Not recommended for use as single ply waterproofing.

BICROELAST polyester membranes should be installed in accordance with BS 8217: 2005 and BS 8004: 2015 Codes of Practice for Reinforced bitumen membranes for roofing and foundations, constantly observing TechnoNICOL installation recommendations and guidance. BICROELAST polyester reinforced membranes are applied by traditional Torch – On methods onto previously prepared surface, clear of any debris or sharp projections, primers shall be used to prepare substrate for achieving most effective waterproofing longevity.

The membranes should be heated carefully ensuring the complete melt of dispersible film as work proceeds. Side laps must be minimum 75mm with end laps at minimum of 100 mm. The subsequent cap sheet layer should be offset 300 mm from the underlay to avoid build-up of overlaps.

Harmonised standard

EN 13707:2004 + A2:2009

EN 13969:2004 + A1:2006

Health and Safety

Health and Safety should be observed at all times in accordance with HSE and Industry guidance. Specific Risk Assessments and Method Statements should be produced by contractors where necessary to ensure Working at Heights, Fire Safety and Manual Handling rules are compliant with current law and regulations. Health and safety data sheets are available for all materials on request from TechnoNICOL Technical Service Department.

Availability

| Product Name | Product Code | Roll Dimensions (m) | Weight (kg/m ²) |
|-----------------------|--------------|---------------------|-----------------------------|
| BICROELAST EMP 2.5 kg | 487596 | 16 x 1 | 2.5 ± 0.10 |
| BICROELAST EMP | 47981 | 16 x 1 | 3.0 ± 0.15 |

Performance and Key Properties

| Properties | Test Method | Declared Performance |
|---------------------------------------|--------------------------------------|---------------------------------|
| Reinforcement type and weight | | Polyester, 160 g/m ² |
| Maximum tensile force L/T, N/50mm | EN 12311-1 | 600/500±100 |
| Elongation, % | EN 12311-1 | 50/50±25 |
| Resistance to tearing (nail shank), N | EN 12310-1 | 180/180±50 |
| Flow resistance at elevated temp. °C | EN 1110 | ≥ 85 |
| Flexibility at low temp. °C | EN 1109 | ≤ -10 |
| Watertightness, kPa | EN 1928 | 200 |
| Water vapour transmission properties | EN 1931 | μ=20 000 |
| External fire performance | EN 13501-5 ENV 1187:2002, test 2* | Broof (t2)* |

*This material is part of a two-layer roofing system and corresponds to the Broof only in combination with a second layer of roofing system.

Quality Assurance

BICROELAST polyester reinforced materials are manufactured following ISO 9001: 2008 Quality Management System and Environmental Management System approved to ISO 14001: 2004.