

BICROELAST EPP/EMP

Polyester based SBS Modified Torch-On Underlays



Introduction

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

Product Description

BICROELAST EPP is a polyester based, Torch – On Underlay, saturated and coated with high quality SBS (Styrene-Butadiene-Styrene) modified bitumen. The membrane is finished with thermofusible film on both sides for fast and consistent Torch – On application.

BICROELAST EMP is polyester based Underlay saturated and coated with high quality SBS (Styrene-Butadiene-Styrene) 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 membranes are reliable, environmentally friendly materials with excellent performance and economy 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.

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TECHNICAL DATA SHEET 06.2016

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 EPP 2.0 kg	525803	16 x 1	2.0 ± 0.10
BICROELAST EPP 2.5 kg	487597	16 x 1	2.5 ± 0.10
BICROELAST EPP	47982	15 x 1	3.0 ± 0.15
BICROELAST EPP 4.0	281798	10 x 1	4.0 ± 0.20
BICROELAST EMP 2.5 kg	487596	16 x 1	2.5 ± 0.10
BICROELAST EMP	47981	15 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.

Technical Service and Other Products

Specialist advise and information on other compatible products is available on www.tn-europe.com