



BICROELAST EPP/EMP

Torch-Applied, SBS Modified Bituminous Underlays

Introduction

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

BICROELAST EMP is a polyester reinforced 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 it suitable for both torch-on application and bonding in hot or cold adhesives.

Product Description

BICROELAST EPP and **EMP** are economical, high performance polyester based waterproofing membranes designed for use in built-up roofing systems to suit the requirements of both new build and remedial applications. They are environmentally friendly materials with excellent performance and economy characteristics, and can be applied to a wide range of substrates.

Product Features

- Low temperature flexibility at -10°C
- Unique snowflake printed thermofusible film to guide accurate and consistent torch-on application
- High resistance to foot marking
- High puncture resistance
- SBS modified bitumen coating formulated to ensure high performance

Application

BICROELAST EPP and **EMP** membranes should be installed in accordance with manufacturer recommendations and all relevant national standards and codes of practice, including BS 8217: 2005 – the code of practice for reinforced bitumen membranes for roofing.

Roofing contractors should also be fully conversant with the guidelines set out in the National Federation of Roofing Contractors (NFRC) 'Safe2Torch' campaign. All operatives using torch guns or hot air guns during installation should be competent, conversant and capable of using such items in a safe and responsible manner. Care must also be taken when using torches and hot air guns in close proximity to combustible materials, decorative coatings and heat sensitive materials.

BICROELAST EPP and **EMP** membranes must be bonded to the previously prepared substrate by using the torch-on application method. Substrates must be clear of any debris or sharp projections, and primers should be used as necessary to prepare the surface for achieving most effective waterproofing longevity (please consult TECHNONICOL Technical Services for details).

The **BICROELAST EPP/EMP** membrane should be heated carefully, ensuring that the dispersible film completely melts as work proceeds and maintaining 5 mm bead extrusion from all laps. Side laps must follow the manufactured mineral free pilot selvedge with end laps at minimum of 10 cm. The cap sheet should be offset 30 cm from the underlay to avoid side build up of overlaps.

Chemical Resistance

BICROELAST EPP and **EMP** are water-resistant and are resistant to watery solutions of salt, diluted non-oxidising acids and bases. Aliphatic and aromatic hydrocarbons, as well as chlorine hydrocarbons, oils and greases may loosen the products and should therefore be avoided.

Harmonised Standard

EN 13707 + A2:2009

EN 13969 + A1:2006

Storage

Store in a cool, dry place and protect from direct sunlight.

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 TECHNINCOL Technical Service Department.

Availability

Product Name	Product Code	Roll Dimensions (m)	Weight (kg/m ²)
BICROELAST EPP 4.0	TN769594	10 x 1	4.0 (± 0.20)
BICROELAST EMP	TN494034	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
Tensile properties: maximum tensile force	EN 12311-1	N/50mm	600/500 (± 100)
Tensile properties: elongation	EN 12311-1	%	50/50 (± 25)
Resistance to tearing (nail)	EN 12310-1	N	180/180 (± 50)
Flow resistance at elevated temperatures	EN 1110	° C	≥ + 85
Flexibility at low temperatures	DIN EN 1109	° C	≤ - 10
Watertightness	EN 1928	kPa	200
Water vapour transmission properties	EN 1931	-	μ=20 000
Reaction to fire	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 products are manufactured following ISO 9001: 2008 Quality Management System and Environmental Management System approved to ISO 14001: 2004.