

TECHNOELAST APP EPP

Torch-Applied, APP Modified Bituminous Underlay



Introduction

TECHNOELAST APP EPP is a polyester reinforced torch-on underlay, saturated and coated with high quality APP (Atactic Polypropylene) modified bitumen. These APP polymers provide the membrane with dimensional stability and slump resistance at high temperatures. The membrane carrier is a tough polyester reinforcement, giving the material excellent dimensional stability and very high mechanical strength. The membrane is finished on both sides with a thermofusible film for fast and consistent torch-on application.

Product Description

TECHNOELAST APP EPP is a high performance polyester based waterproofing material designed to suit requirements of both new build and remedial roofing applications. It can be applied to all suitable non-combustible substrates as an underlay in built-up waterproofing systems or as a vapour control layer on newly built or refurbished flat roofs. The product can also be used as the top layer in certain built-up ballasted waterproofing systems. **TECHNOELAST APP EPP** is not recommended for use as single layer waterproofing.

Product Features

- Independently tested by the British Board of Agreement, BBA certificate number 15/5275
- Unique snowflake printed thermofusible film to guide accurate and consistent torch-on application
- Low temperature flexibility at -15°C
- High puncture resistance
- High resistance to foot marking

Application

TECHNOELAST APP EPP 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.

TECHNOELAST APP EPP 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 TECHNOMICOL Technical Services for details).

The **TECHNOELAST APP EPP** 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 be a minimum 7.5 cm with end laps at minimum of 10 cm. The subsequent cap sheet should be offset 30 cm from the underlay to avoid build up of overlaps.

Chemical Resistance

TECHNOELAST APP EPP is water-resistant and is 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 product and should therefore be avoided.

Harmonised Standard

EN 13707:2004 + 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 TECHNOMICOL Technical Service Department.

Availability

Product Name	Product Code	Roll Dimensions (m)	Weight (kg/m ²)
TECHNOELAST APP EPP	TN467234	8 x 1	4.8 (± 0.2)

Performance and Key Properties

Properties	Test Method		Declared Performance
Length	-	m	8.0
Width	-	m	1.00
Reinforcement type and weight			Polyester, 190 g/m ²
Tensile properties: maximum tensile force	EN 12311-1	N/50mm	970/690 (± 194/138)
Tensile properties: elongation	EN 12311-1	%	50/50 (± 15)
Resistance to tearing (nail)	EN 12310-1	N	210/210 (± 63/63)
Flow resistance at elevated temperatures	EN 1110	° C	≥ + 120
Flexibility at low temperatures	DIN EN 1109	° C	≤ - 15
Watertightness	EN 1928	kPa	300
Water vapour transmission properties	EN 1931	-	μ=20 000
Reaction to fire	EN 13501-5 ENV 1187:2002, test 4*	-	Broof (t4)*

*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

TECHNOELAST APP EPP is manufactured following ISO 9001: 2008 Quality Management System and Environmental Management System approved to ISO 14001: 2004.