

TECHNOELAST K-PS 170/5000

Torch-Applied, SBS Modified Bituminous Cap Sheets



Introduction

TECHNOELAST K-PS 170/5000 is a polyester reinforced, slate covered torch-on cap sheet, saturated and coated with high quality SBS (Styrene-Butadiene-Styrene) modified bitumen. The membrane carrier is a tough polyester reinforcement, giving the material excellent dimensional stability and very high mechanical strength. The upper layer is coated with coarse-grained slate, protecting the membrane from ultraviolet exposure and the lower layer is finished with a thermofusible film for fast and consistent torch-on application.

Product Description

TECHNOELAST K-PS 170/5000 is a high performance polyester based waterproofing material designed to suit requirements of both new build and remedial roofing applications. It is a reliable, environmentally friendly membrane with excellent performance and durability characteristics, and can be applied to suitable torch-on underlays as a cap sheet in built-up waterproofing systems. The product is not recommended for use as single layer waterproofing.

Product Features

- Flow resistance at high temperature 100°C
- Unique snowflake printed thermofusible film to guide accurate and consistent torch-on application
- Excellent low temperature flexibility at -25°C
- High puncture resistance & high resistance to foot marking
- High quality polyester carrier

Application

TECHNOELAST K-PS 170/5000 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 K-PS 170/5000 must be bonded to the previously installed base layer/underlay 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).

TECHNOELAST K-PS 170/5000 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 build up of overlaps.

Chemical Resistance

TECHNOELAST K-PS 170/5000 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

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 TECHNOLICOL Technical Service Department.

Availability

Product Name	Colour	Product Code	Roll Dimensions (m)	Weight (kg/m ²)
TECHNOELAST K-PS 170/5000	Grey	TN104525	8 x 1	5.0 (± 0.25)

Performance and Key Properties

Properties	Test Method		Declared Performance
Length	-	m	8.0
Width	-	m	1.00
Reinforcement type and weight			Polyester, 170 g/m ²
Tensile properties: maximum tensile force	EN 12311-1	N/50mm	700/500 (± 100)
Tensile properties: elongation	EN 12311-1	%	50/50 (± 25)
Resistance to tearing (nail)	EN 12310-1	N	180/180 (± 30)
Flow resistance at elevated temperatures	EN 1110	° C	≥ + 100
Flexibility at low temperatures	EN 1109	° C	≤ - 25
Watertightness	EN 1928	kPa	300
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

TECHNOELAST K-PS 170/5000 is manufactured following ISO 9001: 2008 Quality Management System and Environmental Management System approved to ISO 14001: 2004.