



ECOFLEKS V

Torch-Applied, Glass-Fibre Based APP Modified Bituminous Underlays

Introduction

ECOFLEKS V is a glass-fibre based torch-on underlay, saturated and coated with high quality APP (Atactic Polypropylene) modified bitumen and mineral additives. The membrane is finished on both sides with a thermofusible film for fast and consistent torch-on application.

Product Description

ECOFLEKS V membranes are economical, high performance glass-fibre based waterproofing materials. They are environmentally friendly membranes with excellent performance characteristics, and can be applied to a wide range of substrates. **ECOFLEKS V** membranes are designed for use as an underlay in built-up roofing systems or as a vapour check on new built or refurbished flat roofs. They can also be used as part of overlay systems to existing asphalt or bituminous waterproofing. The product is not recommended for use as single ply waterproofing.

Product Features

- Excellent flow resistance at elevated temperature 100°C
- Unique snowflake printed thermofusible film to guide accurate and consistent torch-on application
- High resistance to foot marking
- Excellent quality glass-fibre reinforcement
- APP modified bitumen binder formulated to ensure high performance

Application

ECOFLEKS V 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.

ECOFLEKS V 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 TECHNOMICOL Technical Services for details).

ECOFLEKS V membranes 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

ECOFLEKS V membranes are 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 products and should therefore be avoided.

Harmonised Standard

EN 13707 + 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 TECHNINCOL Technical Service Department.

Availability

Product Name	Product Code	Roll Dimensions (m)	Weight (kg/m ²)
ECOFLEKS V 2.0 kg	TN403256	16 x 1	2.0 ± 0.2
ECOFLEKS V 2.6 kg	TN459623	16 x 1	2.6 ± 0.2
ECOFLEKS V 3.0 kg	TN555218	10 x 1	3.0 ± 0.2

Performance and Key Properties

Properties	Test Method		Declared Performance
Reinforcement type and weight			Glass-fibre, 55 g/m ²
Tensile properties: maximum tensile force	EN 12311-1	N/50mm	400/300 (± 150)
Tensile properties: elongation	EN 12311-1	%	4/4 (± 2)
Resistance to tearing (nail)	EN 12310-1	N	50/50 (± 10)
Flow resistance at elevated temperatures	EN 1110	° C	≥ + 100
Flexibility at low temperatures	DIN EN 1109	° C	≤ - 0
Watertightness	EN 1928	kPa	100
Water vapour transmission properties	EN 1931	-	μ=20 000
Reaction to fire	EN 13501-5	-	Class E

Quality Assurance

ECOFLEKS V membranes are manufactured following ISO 9001: 2008 Quality Management System and Environmental Management System approved to ISO 14001: 2004.