

RADONELAST 3,5

Glass fibre + AL based SBS Modified Universal Underlays



Introduction

RADONELAST 3,5 membranes are high performance waterproofing materials designed for use in high performance built up systems to suit requirements of both new build and remedial roofing applications.

Product Description

RADONELAST 3,5 is a glass fibre + aluminum foil 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. Due to composite reinforcement (glass fibre + aluminum foil) these membranes are an ideal solution for foundation waterproofing and recommended to be used as a radon barrier for the indoor premises (basement, cellar and inner block walls and floor).

These products can be applied to all suitable types of substrates as underlays in high performance built up waterproofing systems.

Product Features

- Excellent low temperature flexibility at -15°C
- High puncture resistance
- Designed to perform in harshest weather conditions
- SBS modified bitumen binder formulated to ensure highest performance

Application

RADONELAST 3,5 materials can be used as underlays in built up waterproofing systems or as radon barriers on new built or refurbished foundation as well as part of overlay systems to existing asphalt waterproofing. Not recommended for use as single ply waterproofing.

RADONELAST 3,5 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. 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 75 mm with end laps at minimum of 100 mm. The subsequent sheet layer should be offset 300 mm from the underlay to avoid build up of overlaps.

Harmonised standard

EN 13 707+A2:2009

EN 13 969:2005 + A1:2007

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.

Performance and Key Properties

Properties	Test Method	Declared Performance
Roll Dimensions, m	EN 1848-1	10 x 1
Thickness, mm	EN 1849-1	3.5 ± 0.2
Weight, kg/m ²	EN 1849-1	4.5
Maximum tensile force L/T, N/50mm	EN 12311-1	200±50/450±100
Elongation, %	EN 12311-1	6/6±4
Resistance to tearing (nail shank), N	EN 12310-1	100/100±30
Flow resistance at elevated temperature, °C	EN 1110	≥ 70
Flexibility at low temperature, °C	EN 1109	≤ -15
Impact resistance, Ø mm h=300mm		≥ 30
Radon diffusion coefficient (x10 ⁻¹²)		5,3 x10E-15
Reaction to fire	EN 13501-1:2002	Euroclass E

Quality Assurance

RADONELAST 3,5 materials are manufactured following ISO 9001: 2008 Quality Management System and Environmental Management System approved to ISO 14001: 2004.