



ALCOLIN SLATE-UNDERLAY

Description

Alcolin Slate Underlay is a pre-fabricated waterproofing membrane that is laid under slate roofing tiles to provide long lasting protection against water and dust ingress. It is constructed from distilled bitumen and plastomeric polymers (APP) having a woven and non-woven single strand composite polyester reinforcement, which provides the membrane with high mechanical characteristics and excellent dimensional stability. Half of the top face has a special heat laminated aluminium foil over the width that protects the membrane against UV degradation.

Features & Benefits

- Polyester reinforced – high mechanical strength & dimensional stability
- APP modified bitumen – excellent cold flexibility to -5°C and waterproofing properties
- Heat laminated aluminium foil – superior protection of membrane from UV degradation

Applications

- Waterproofing and dustproofing of slate roofs prior to laying of the tiles.

EN13707 Continuous roofs (Certificate No. GB14/92056)

No. layers			Method of application				Type of Application			Type			
Single Layer	Double Layer	Multilayer	Torch	Cold Bond Glue	Mechanical Fixing	Thermal Adhesive / Self Adhesive	Fully Bonded	Partially Bonded	Loose Laid	Complimentary Layer	Top Layer	Heavy Protection	Anti-root
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Limitations

- Not suited for the final / top layer of the roof
- Not suitable for loose lay application.
- Flat roofs must have a minimum slope of 1.25% (1:80).
- Do not apply in temperature below 6°C or in adverse weather conditions i.e. rain.

Safety instructions

Alcolin Slate Underlay is non-toxic. Refer to our Safety Data Sheets for further toxicological information and comprehensive handling instructions.

Surface preparation

TECHNICAL DATA SHEET

- Defects in the structure should be repaired prior to application.
- The user must ensure that the batten gaps are between 190mm to 225mm.
- The application surface must not have depressions where ponding of water can occur. To ensure regular run off of rain water, we recommend a surface slope of 1.25% (1:80).
- Water drainage outlets should be a minimum of 110mm for every 90m² of surface area to allow for rain water to be eliminated efficiently.

Directions for use

1. Start from the bottom of the slope and work towards the top of the slope. Roll the Alcolin Slate-Underlay horizontally across the roof parallel to the eaves.
2. The aluminum surface must face upwards on the lower half of the roll i.e. sun facing, on the bottom side of the slope.
3. Nail the Alcolin Slate-Underlay membrane with large copper or zinc clout nails through the unprotected membrane, onto a roof batten. In aggressive coastal environments, it is recommended to use Muntz metal nails (63 copper, 36 zinc, 1 tin).
4. After slating over the aluminium area, the next strip of membrane should be applied in a similar fashion so that the aluminium foil coated area of the second sheet overlaps the uncoated strip of the first sheet.
5. End laps in the membrane must be overlapped by a minimum of 150mm.
6. Refer to the diagram for visual representation



Additional application notes

- Rolls should be kept in a warm or heated storage area during application. Should the workability of the membrane deteriorate or become stiff and difficult to install during the application, these should be returned to the heated storage area and substituted with new rolls.
- Avoid leaving the structure for the night or for periods of prolonged work interruptions without having been properly sealed.

TECHNICAL DATA SHEET

Storage

Alcolin Slate-Underlay has a shelf life of at least 24 months if stored in a cool (below 25°C), dry and ventilated area away from heat sources. Rolls must be stored in an upright position. Do not stack them horizontally one on top of the other to avoid deformation. Rolls left on the roof should be kept upright on the pallets and protected from the weather

Product packaging

Roll size (m)	20 x 0.45
Rolls per pallet	50
Square meter per pallet (m ²)	450

Product data

i. Physical data

Type		Polymer modified bitumen adhesive
Type of reinforcement		Fiberglass
Upper face finish		Polyethylene
Lower face finish		Sand / Aluminium
Width of aluminium facing		225mm
Aluminium thickness		24um
Length	EN 1848-1	20m
Width	EN 1848-1	0.45m
Mass	EN 1849-1	2.3 Kg/mm ²

ii. Application data

Minimum application temperature	+6°C
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iii. Performance data

Artificial UV ageing	EN 1297	Pass
Cold flexibility	EN 1109	-5°C
Coverage per roll		4m ²
Dimensional Stability	EN 1107-1	NPD (no performance determined)
Elongation at break L/T	EN 12311-1	2/2%
Fire reaction	EN 13501-1	F (combustible)
Fire resistance	EN 130501-5	F Roof (combustible)
Flow resistance	EN 1110	120°C
Flow resistance after ageing	EN 1296	110°C
Tearing resistance L/T	EN12310-1	70/70N
Tensile strength L/T	EN 12311-1	500/300 (N/5cm)
Water tightness	EN 1928	60 kPa

The above information is only offered, as a guide to the use of this product. Furthermore, users should satisfy themselves that it is suitable for their needs. Since we have no control over the conditions under which it is used, we cannot accept responsibility for problems caused by the use and/or application of this product.

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