

SELF-ADHESIVE UNDERLAY

Waterproofing composite self-adhesive membrane

Description

The bitumen-polymer SELF-ADHESIVE UNDERLAY membranes are the arrival point of the latest generation of membranes denominated “composite”, with differentiated waterproofing mass, which allows the optimal use of each layers properties, satisfying the different requirements. SELF-ADHESIVE UNDERLAY has a continuous single strand composite woven non-woven polyester reinforcement with high mechanical characteristics. The SELF-ADHESIVE UNDERLAY membranes are capable of resolving specific application and functional requirements and present numerous and important advantages, such as ease of application with consequential savings on time and the possibility to apply the material on surfaces which are not suitable to open flame. Therefore SELF-ADHESIVE UNDERLAY is insuperable in the waterproofing of wood structures, insulation panels which are heat sensitive, panel decks and refurbishment of historical roofs. Furthermore SELF-ADHESIVE UNDERLAY can be used and allows the waterproofing of particular roof details (ex. bandaging of plastic tubes, etc.) and the possibility to also apply with the traditional application method of open flame or hot air, obtaining an exceptional level of adhesion. SELF-ADHESIVE UNDERLAY guarantees a perfect level of adhesion to the application surface, providing the system with an excellent level of wind uplift resistance and allowing accidental infiltrations to be traced.

Fields of Use

CONTINUOUS ROOF EN13707 (certificate n. 0958-CPR-2045/1)

| CE | N. LAYERS | | | METHODS OF APPLICATION | | | | | TYPE OF APPLICATION | | | TYPE | | | | | |
|----|--------------|--------------|------------|------------------------|---------|------------------|----------------|--------------------|---------------------|--------------|------------------|------------|---------------------|-----------|------------------|-----------|------------|
| | SINGLE LAYER | DOUBLE LAYER | MULTILAYER | TORCH | HOT AIR | MIXED(TORCH/AIR) | COLD BOND GLUE | MECHANICAL FIXINGS | THERMO AD/ SELF | FULLY BONDED | PARTIALLY BONDED | LOOSE LAID | COMPLIMENTARY LAYER | TOP LAYER | HEAVY PROTECTION | ANTI-ROOT | OTHER USES |
| | | • | • | | | | | • | • | • | | | • | | | | |

Application

- On cementitious surfaces and similar apply, by roller or airless, synthetic primer, approx. consumption 200-400 g/m². This application is not required on wooden roofs except OSB boards.

- Position the SELF-ADHESIVE UNDERLAY on the application surface; provide side & head laps respectively of 10 & 15 cm's between the sheets.
- Remove the release film from the lower face, this is divided longitudinally in two sections, in one or two steps. It is always suggested to mechanically fix head & side laps.
- Use suitable roller by applying pressure over all of the membrane surface, particularly the side & head laps to further promote adhesion.
- Position suitable single or double battens for subsequent laying of the sealing element consisting of a discontinuous covering mantle (tiles, roof tiles, etc.) as required by the UNI 9460: 2008 standard - Discontinuous roofing for roofs.
- In the event of high internal relative humidity, or the presence of humidity in the wooden deck application surface, to prevent the formation of condensation on the inner face of the adhesive membrane during the night, which may cause marks or stains over time in the ceiling of the rooms below, foresee the use of a vapor separation and diffusion layer having a polypropylene film finish mechanically fixed to the support with broad-headed nails. The adhesive membrane is then applied over the vapor diffusion layer.

Recommendations

The SELF-ADHESIVE UNDERLAY membranes are to be applied on dry clean surfaces which must be treated with a synthetic primer, excluded are wooden roofs except OSB boards.

- The side & head laps must be respectively of 10 & 15 cm's.
- When applying on verticals, the apex of the membrane must be mechanically fixed with a proper flashing; where possible it is advisable to go up and over the vertical and on to the horizontal surface.
- Using the version with special printed film, immediately apply the finishing layer.
- Avoid storing the product on the roof with temperatures lower than +10°C or higher than +40°C if not for the time necessary for installation.
- With temperatures below +10°C it is necessary to apply the product using particular precautions: 1. Store the rolls in an upright position in the original packaging, indoors and in dry and warm areas. 2. Transport the rolls to the place of application only at the time of use. 3. The ideal application occurs at temperatures above +10°C, however it is possible to apply the product below +5°C bringing the rolls to the ideal temperature with a leister or gas torch. • The application surface must not have any depressions to avoid the risk of ponding water, the slope must be at least 1.5% on concrete decks and 3% for steel or wooden ones, this to guarantee a proper run off of rainwater. • Program periodical roof inspections to remove debris, mud, plants, etc. and to keep under control the waterproofing as well as accessory details (drain outlets, TV antennas, air conditioning, etc.).
- In the eventuality in which the element to be waterproofed presents residual humidity (ex. refurbishment, application after heavy rains) it is necessary to foresee the use of air vents, which will be positioned in a way to allow for the evacuation of the humidity.
- Absolutely avoid the stacking of rolls and pallets for storage or transport to avoid possible deformations which may compromise a perfect installation. It is recommended to store the product at temperatures above 0°C. • For further information it is recommended to consult our Installation Manual.

Performance

| Technical Data | Measure Units | Reference Norm | Properties | Tolerance |
|-------------------------|---------------|----------------|----------------------|-----------|
| Type of compound | | | SBS | |
| Type of reinforcement | | | Polyester | |
| Upper face finish | | | Sand | |
| Lower face finish | | | Silicon release film | |
| Length | m | EN 1848-1 | 15 -1% | |
| Width | m | EN 1848-1 | 1 -1% | |
| Thickness | mm | EN 1849-1 | 2 | ±5% |
| Cold flexibility | °C | EN 1109 | -15 | |
| Flow resistance | °C | EN 1110 | 100 | |
| Tensile strength L/T | N/5 cm | EN 12311-1 | 400 / 300 | -20% |
| Elongation at break L/T | % | EN 12311-1 | 35 / 35 | -2 |
| Tearing resistance L/T | % | EN 12310-1 | 120 / 120 | -30% |
| Dimensional stability | % | EN 1107-1 | -0.3 | |
| Fire resistance | | EN 13501-5 | F ROOF | |
| Fire reaction | | EN 13501-1 | F | |
| Watertightness | kPa | EN 1928 | 60 | |

Availability

| Product Name | Product Code | Roll Dimensions (m) | Weight(kg/m ²) |
|---------------------------------|--------------|---------------------|----------------------------|
| SELF ADHESIVE UNDERLAY 1 X 15 M | A0004867 | 15 x 1 | 2 |

Further Information

View our full range of products at www.wonderbuilds.co.uk

You can also contact us at [0208 208 2121](tel:02082082121), or at admin@wonderbuilds.co.uk