

# SELF BASE MINERAL

Heat activated waterproofing membrane



## DESCRIPTION

Prefabricated thermal activated composite waterproofing membrane, composed of distilled bitumen and special synthesis polymers, which provide thermal adhesion properties to the lower face waterproofing compound.

The waterproofing compound of the upper face allows for fast heat transmission to the lower face.

The thermal activated waterproofing compound allows the product to be positioned and applied without the initial use of heat and is particularly indicated for those surfaces where the use of direct open flame is not suggested.

## FIELDS OF USE

SELF BASE MINERAL can be used with success as a waterproofing element for under roof tile applications in a wide range of both civil and industrial works. Particularly suitable for all those structures and applications where the use of direct flame on the substrate is not

recommended (ex. Polystyrene insulation or wooden roofs). The particular formulation of the membranes of the SELF BASE MINERAL makes it compatible with all NORD BITUMI membranes, be they either APP or SBS based. The adhesion of SELF BASE MINERAL will be obtained by exposure to the sun, making sure to always mechanically fix the sheets in correspondence of the side & head laps. Furthermore particular care must be given during application around the details (perimeter, protruding objects, etc.), of the parapets and in correspondence of change of slope; during the winter season use an appropriate hot air gun.

**Reinforcement:** Single strand polyester

**Compound:** Elasto-plastomer polymer bitumen (APP)

**Top finish:** Mineral slates \*

**Lower finish:** Silicon release film

**Intended use:**

**EN 13859-1 Under roof tile**

**Application method:** Thermo-adhesive

\* Mineral self-protected products may undergo color tone variations due to the time and length of storage. Exposure to atmospheric conditions, after application, will tend to uniform the color after a few months. The change in color tone cannot therefore be contested and / or complained of as it is a natural phenomenon that the slate manufacturer himself cannot guarantee.

## APPLICATION

- On cementitious substrates or similar apply by roller or airless the bituminous primer PRIMERTEC AD, approx. consumption 300 g/m<sup>2</sup>. This is not necessary on wooden surfaces.
- Position the rolls on the application surface without the use of heat.
- Remove part of the thermoplastic film and fix the head laps by using a hot air gun (always mechanically fix the sheets in correspondence of the side & head laps).
- Provide for side & head laps respectively of 10 & 15 cm between the sheets, making sure to also remove the side overlap on the upper face.
- Remove the thermoplastic film on the lower face of the membrane.
- After having positioned the rolls, apply pressure over the surface using a suitable roller to promote adhesion.
- The adhesion of the SELF BASE will occur with the heat of the sun. During the winter season it is suggested, once the sheets have been laid, to do the details (chimneys, perimeters, protruding objects, skylights, etc.) activating the thermo adhesive compound with appropriate hot air gun.
- Particular care should be given during the application around details (protruding objects, chimneys) of the up stands and change of slope, which will be applied by using a hot air gun.
- Apply the clay roof tiles.

## RECOMMENDATIONS

To best use the technical characteristics of bituminous membranes and guarantee the maximum performance and durability of the jobs where they are used, some simple but fundamental rules must be respected.

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- The rolls are to be stored in an upright position, indoors in a dry and ventilated area, away from heat sources. 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.
- The rolls shall be kept in a warm or heated storage area during application, should the workability of the material deteriorate or become stiff and difficult to install during application, these should be returned to the heated storage area and substituted with new rolls. The rolls that are temporarily stored on the roof before application, shall be kept elevated by being left on their own pallets and shall be covered and protected from the weather.
- The application surface must be smooth dry & clean.
- The application surface must be previously treated with a suitable bituminous primer, to eliminate dust and enhance the adhesion of the membrane.
- **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.**
- In situations of application on vertical surfaces superior to 2 meters or on very sloped substrates, apply suitable mechanical fixings to the head laps, after which they will be sealed when torching the head laps.
- The application must be done at temperature higher than +5°C.
- The application must be interrupted in adverse weather conditions (high humidity, rain, etc.).
- The pallets on which the rolls are packaged are intended for normal warehouse use.
- The materials on stock should be rotated following a first in first out rotation.

## TECHNICAL SPECIFICATIONS

CHARACTERISTICS	TESTING METHOD	M.U.	TOLERANCE	PA
Length/Width	EN 1848-1	m	MLV ≥	10,0 / 1,0
Visible defects	EN 1850-1	visual		None
Mass	EN 1849-1	kg/m <sup>2</sup>	MDV ±10%	4,0
Straightness	EN 1848-1	mm/10 m	MLV	< 20
Watertightness	EN 1928	kPa	MLV ≥	60
External Fire Performance	EN 13501-5			F ROOF
Reaction to fire	EN 13501-1	class		NPD
Maximum tensile strength (L/T)	EN 12311-1	N/50 mm	MDV -20% +50%	400/300
Elongation (L/T)	EN 12311-1	%	MDV -15 +30	35/35
Resistance to tearing (L/T)	EN 12310-1	N	MDV -20% +50%	120/120
Dimensional stability	EN 1107-1	%	MLV ≤	0,3
Peel resistance of joints (L/T)	EN 12316-1	N/50 mm	MDV ±20N	NPD/NPD
Cold flexibility	EN 1109	°C	MLV ≤	NPD
Cold flexibility after ageing	EN 1296	°C	MDV +15°C	NPD
Flow resistance	EN 1110	°C	MLV ≥	90
Flow resistance after ageing	EN 1296	°C	MDV -10°C	80
Joint strength (shear resistance) (L/T)	EN 12317-1	N/50 mm	MDV -20% +50%	300/200
Resistance to impact	EN 12691-B	mm	MLV ≥	700
Resistance to static loading	EN 12730-A	Kg	MLV ≥	10
Root resistance	EN 13948			NPD
Water vapour permeability	EN 1931	μ	MLV ≥	20000

NPD : No Performance Declared in accordance with the EU Construction Products Directive.

MDV : value declared by the manufacturer associated with a declared tolerance.

MLV : limit value, minimum or maximum, declared by the manufacturer.

## PACKAGING

PRODUCT	ROLL SIZE	WEIGHT KG/M <sup>2</sup>	THICKNESS MM	SQUARE METERS PER PALLET
SELF BASE MINERAL	10 m x 1 m	4,0	-	270

The waterproofing membrane based on distilled bitumen and polymers, as shown in this data sheet does not require the issue of a MSDS, because it does not contain dangerous substances. The information data sheet for the proper use of products is available. The technical data given is based on average values obtained during production. We reserve the rights to change or modify the nominal values without prior notice or advice. The information contained in this data sheet are based on our experience. We cannot take any responsibility for a possible incorrect use of the products. The customer has to choose under their own responsibility a product fit for the intended use.

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