



## VAPORSTOP CA 500

### Description:

Flexible reinforced SBS-modified bitumen membrane VAPORSTOP CA 500 is used as a high-performance vapor barrier in roof waterproofing systems. Self-adhesive bottom surface and high tensile strength ensure the ability of the material to withstand the weight of the person standing between the corrugations of the profiled metal deck without breaking or stretching.

The material is produced on a base of a glass net carrier coated with SBS-modified self-adhesive bitumen binder. The membrane is protected on the bottom side with an easily removable siliconized film, while the top surface is covered with aluminium foil.

### Advantages:

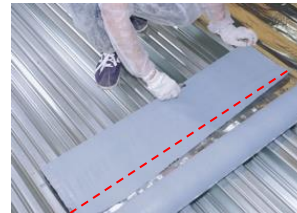
- Provides very effective vapor insulation.
- High tensile strength offers the possibility of walking over the material during its installation.
- Reliable adhesion properties prevent the material from shifting and make it invulnerable to the wind load.
- Can be used on buildings of every construction type and height.
- Can be used in combination with any thermal insulation and waterproofing material.
- May serve as a provisional roofing.
- High speed of application.
- No need for any additional equipment and skills.
- Resistance to accidental burning.
- High reparability.

### General requirements:

- Rolls of the material should be stored indoors in a dry place in their original packaging and taken to the construction site ready to use.
- Rolls should be stored upright on pallets in a 1-row height.
- Falls or other mechanical impacts should be avoided during transportation and storage.
- The application surface must be cleaned of dust, debris, grease, leaves, oil and should not have gaps and cracks or other irregularities to ensure proper adhesion of the membrane.

### Installation:

#### ■ FLAT ROOF



Cut the siliconized anti-adhesion film at the distance of 30-40 cm from the beginning of the roll by means of roofing knife.



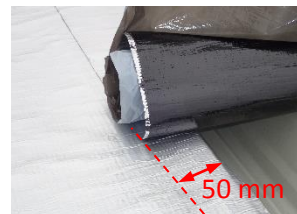
Take off the protective film from the beginning of the roll and attach the membrane to the surface.



Press the place of the first adhesion by roller for the whole width of the membrane.



Continue attaching the membrane to the base. One worker pulls the film off, while the other smooths the membrane by brush.



Longitudinal overlaps should be situated at the top of corrugation and be not less than 50 mm, end overlaps – not less than 100 mm.

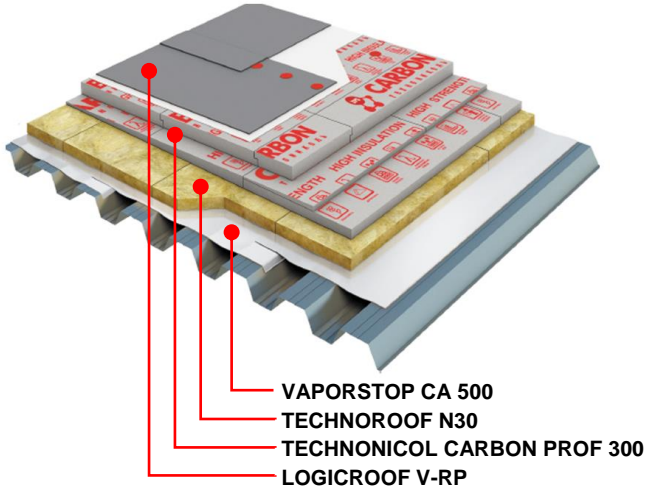


If the membrane has been damaged during the installation simply attach a bigger piece of the material ( $\geq 100$  mm from all sides) to cover the hole.

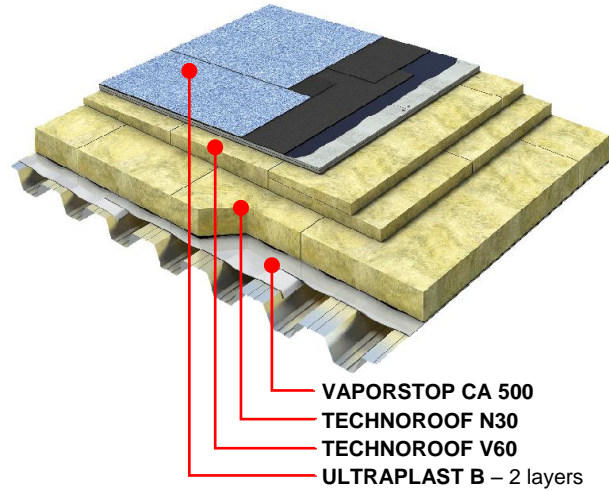


**System solutions:**

- **FLAT ROOF WITH PVC MEMBRANE AND COMBINED THERMAL INSULATION**



- **FLAT ROOF WITH BITUMEN MEMBRANE AND STONE WOOL THERMAL INSULATION**



**Directions for use:**

Self-adhesive bitumen membranes in cold periods tend to harden resulting in decreased adhesion. Installation of self-adhesive materials should be performed within the favorable climatic conditions i.e. dry weather and temperatures above +10°C. At temperatures below +10°C and high air humidity the adhesion of the membrane could be compromised and therefore it is necessary to use the hot air to restore characteristics of the material.

**Declared performance:**

Essential characteristics	Test method	Performance	Essential characteristics	Test method	Performance
Protection of the top side	-	<b>aluminium foil</b>	Softening point, °C	ASTM D36	<b>≥ +100</b>
Protection of the bottom side	-	<b>self-adhesive binder / anti-adhesion film</b>	Flexibility at low temperature, °C	EN 1109-1	<b>≤ -25</b>
Length, m	EN 1848-1	<b>≥ 50.0</b>	Flow resistance at elevated temperature, °C	EN 1110	<b>≥ +90</b>
Width, m	EN 1848-1	<b>≥ 1.08</b>	Visible defects	EN 1850-1	<b>Pass</b>
Straightness	EN 1848-1	<b>≤ 10 mm / 5 m</b>	External fire performance	EN 13501-5	<b>Broof (t1)</b>
Mass per unit area, kg/m <sup>2</sup>	EN 1849-1	<b>0.5±0.1</b>	Reaction to fire	EN 13501-1	<b>Euroclass E</b>
Thickness, mm	EN 1849-1	<b>NPD</b>	Dimensional stability, %	ASTM D5147	<b>NPD</b>
Type of carrier	-	<b>glass net</b>	Adhesion of granules, %	EN 12039	<b>NPD</b>
Tensile properties: maximum tensile force L / T, N/50mm	EN 12311-1	<b>600±120 / 600±120</b>	Peel resistance of joints: overlap to aluminium foil, N/50mm	EN 12316-1	<b>≥ 50</b>
Tensile properties: elongation L / T, %	ASTM D5147	<b>≥ 2.0 / ≥ 2.0</b>	Water vapor transmission (Sd), m	EN 1931	<b>≥ 1000</b>
Determination of shear resistance of joints, kN/m	EN 12317-1	<b>≥ 1.5</b>	Dangerous substances	Does not contain dangerous substances	

Footnotes: L / T – Longitudinal / Transverse; NPD – No Performance Determined.

Shelf life if all storage requirements are met: 12 months from the date of production.