TECHNONICOL India Private Limited
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ULTRAFLEX SA NB

Description:

Self-adhesive carrier less SBS-modified bitumen membrane ULTRAFLEX SA NB is designed for waterproofing of foundations and engineering structures, indoor waterproofing. Thanks to the special adhesive bitumen compound, the material can be used on surfaces, where the standard torch-on application is forbidden (expanded / extruded polystyrene or wooden base).

ULTRAFLEX SA NB waterproofing material is produced by placing a special self-adhesive polymer-bitumen binder on a thick polymer film that covers the material on top. The other side of the material is covered with a removable protective film. The absence of a carrier is a key feature of this material that makes it very elastic and flexible.

Advantages:

- Can be used on bases, where the standard torch-on application is forbidden (wood, XPS, etc.).
- High speed of application.
- Safety and cheap application – the membrane is applied without use of gas and flame.
- No need for any additional equipment and skills.
- Cold application method prevents smoke, odors and noise.
- Can be used for indoor waterproofing in a closed area.

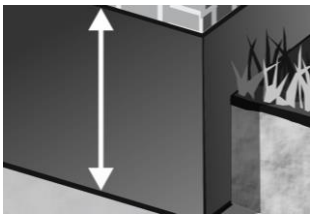
General requirements:

- 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. Roll's protective film should not be damaged.
- 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.
- Surface must be treated with primer before installation of waterproofing material for better adhesion of the membrane.

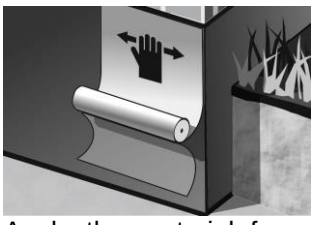
Installation:

- **FOUNDATION WATERPROOFING**

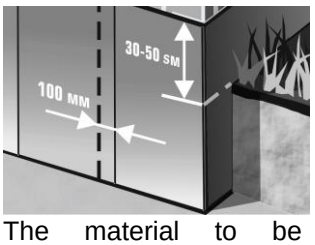
Clean the surface and treat it with bitumen primer TECHNONICOL No.01.



Measure the depth of the foundation and cut the material to the required length.



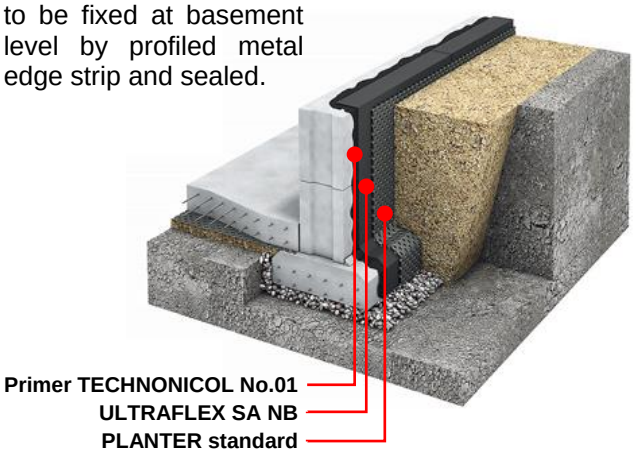
Apply the material from top downward by gradual removing the protective film, unrolling the membrane and smoothing it to the surface.



The material to be installed to the height of 30-50 cm above the ground level. Longitudinal overlaps should be 100 mm, sheet end overlaps - 150 mm.

Protect the membrane from mechanical damage by means of XPS TECHNONICOL CARBON ECO / PROF 300 or PLANTER standard / geo profiled HDPE membrane.

The top end of the waterproofing membrane to be fixed at basement level by profiled metal edge strip and sealed.



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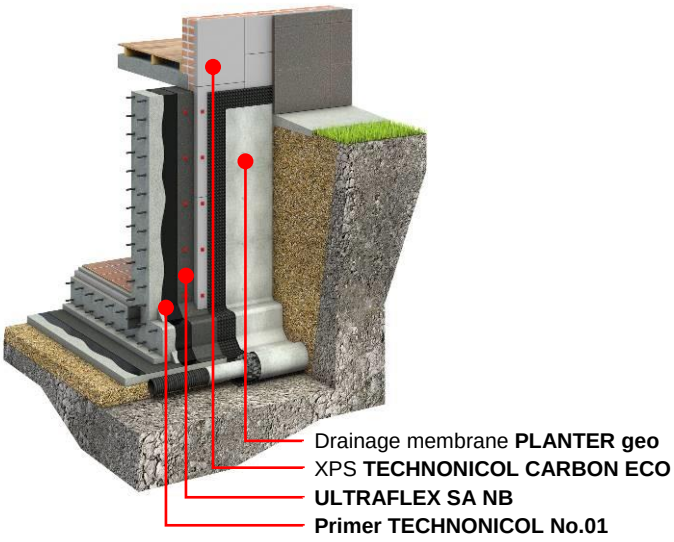
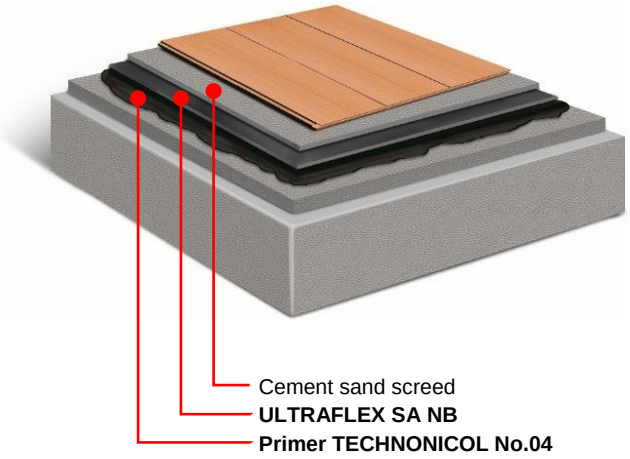
System solutions:

- **FOUNDATION WITH THERMAL INSULATION**



- **INDOOR WATERPROOFING**



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	-	**thick polymer film**	Softening point, °C	ASTM D36	**≥ +100**
Protection of the bottom side	-	**self-adhesive binder / anti-adhesion film**	Flexibility at low temperature, °C	EN 1109-1	**≤ -15**
Length, m	EN 1848-1	**≥ 20.0**	Flow resistance at elevated temperature, °C	EN 1110	**≥ +85**
Width, m	EN 1848-1	**≥ 1.0**	Visible defects	EN 1850-1	**Pass**
Straightness	EN 1848-1	**≤ 10 mm / 5 m**	External fire performance	EN 13501-5	**Froof**
Mass per unit area, kg/m²	EN 1849-1	**1.5±0.25**	Reaction to fire	EN 13501-1	**Euroclass F**
Thickness, mm	EN 1849-1	**1.5±0.10**	Dimensional stability, %	ASTM D5147	**NPD**
Type of carrier	-	**carrier less**	Adhesion of granules, %	EN 12039	**NPD**
Tensile properties: maximum tensile force L / T, N/50mm	EN 12311-1	**NPD**	Peel resistance of joints: overlap to overlap / overlap to film, N/50mm	EN 12316-1	**NPD / ≥ 25**
Tensile properties: elongation L / T, %	ASTM D5147	**≥ 200 / ≥ 200**	Water vapour transmission properties	EN 1931	**μ=20000**
Determination of shear resistance of joints, kN/m	EN 12317-1	**≥ 2.0**	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.