



ULTRABASE PA SAND FINISH

Pre-applied HDPE membrane that bonds to poured concrete

PRODUCT DESCRIPTION:

ULTRABASE PA SAND FINISH is a high-performance pre-applied HDPE membrane designed for waterproofing of foundations, tunnels, and other engineering structures.

The material represents composite sheets of thick HDPE film with a special pressure sensitive adhesive compound protected with sand that reacts with a wet mortar and gives an excellent integral bonding. The waterproofing membrane bonds to the concrete preventing water ingress to the structure. To ensure the connection of the rolls, the edge of the membrane is free from sand. There are two types of the material with weldable or self-adhesive overlap bonding.

ULTRABASE PA membrane does not require protection before backfilling.



AREA OF APPLICATION:

Pre-applied HDPE membrane ULTRABASE PA SAND FINISH is used for waterproofing of foundations, tunnels, underground parts of buildings and structures in pre-applied systems with liquid concrete pouring on top of the material.

ADVANTAGES:

- Highly reactive adhesive along with sand ensures complete and reliable adhesion to the concrete surface.
- Exceptional dimensional stability, puncture, and tear resistance.
- The membrane does not require protection before backfilling.
- Can be used as a barrier to water, moisture, and gas.
- Versatile area of application.
- Suitable for different soil conditions.
- Weather and UV resistant.
- Strong resistance to industrial chemicals.
- Trafficable during reinforcement during pouring of concrete.

PERFORMANCE OF WORKS:

The surface must be solid and smooth, it should not have gaps, cracks, sharp protrusions or other irregularities above 12 mm. The substrate must be stable to avoid its movements due to traffic or concrete pour. It is possible to install the membrane over the wet surface but standing water to be removed.

Unroll and align the membrane to the application area HDPE film facing the substrate and sand side facing the concrete pour. The overlaps of the material sheets should be not less than 75 mm. The spacing between end overlaps should be at least 500 mm. Ensure the overlapping area is clean and free from contamination. Remove the protective film from the self-adhesive edge of the membrane and press the overlap of the two sheets together. Use ULTRABASE PA TAPE to seal the end overlaps.

For vertical surfaces, mostly the ULTRABASE PA (release liner) is used. It can be applied as a pre-applied system with installation inside the formwork or as a self-adhesive membrane on cured concrete. In case of use of ULTRABASE PA sand finish for waterproofing of vertical surfaces, it must be installed inside the formwork, prior to the concrete pour. The sand surface must face the concrete pour.

ULTRABASE PA sand finish can be exposed to weather, however, efforts should be taken to prevent mechanical damage of the membrane. Any punctured or damaged areas should be repaired with patches of ULTRABASE PA (release liner) membrane or ULTRABASE PA TAPE with minimum overlapping of 150 mm in every direction from the place of damage.

NOTE: ULTRABASE PA SAND FINISH membrane should not be applied when the ambient temperature is below -2°C. At temperatures below +10°C the material to be heated slightly with the means of a hot air gun to improve the initial adhesion and restore characteristics of the membrane.

MAIN CHARACTERISTICS:

Properties	Test Method	Performance
Thickness, mm	-	1.2, 1.5, 1.7, 2.0
Length x width, m	-	20 x 1.0 / 20 x 2.0
Tensile strength, MPa	ASTM D 412 -2016	≥ 23
Elongation, %	ASTM D 412 -2016	≥ 550
Puncture resistance, N	ASTM E 154	≥ 1100
Foldability at low temperature, °C	-	≤ -25
Lap Adhesion, N / m	ASTM D 1876	≥ 1400
Resistance to Hydrostatic pressure, m	ASTM D 5385	≥ 71
Peeling strength with post-cast concrete, N/m	ASTM D 903	≥ 1500

STORAGE:

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 at a one-row height. Falls or other mechanical impacts should be avoided during transportation and storage. Roll's packaging should not be damaged.

HEALTH AND SAFETY:

- For information and advice on the safe handling, storage and disposal of chemical products, users shall contact company personnel and refer to the Safety Data Sheet.
- Complete rolls should be handled by a minimum of two persons.