Technical Data Sheet

RENOLIT ALKORPRO T – Fully bonded membrane

Translucent PVC-P geomembrane for all concrete constructions below ground level.

DESCRIPTION

The **RENOLIT** ALKORPRO T is a translucent geomembrane made out of a highly flexible PVC film heat-coupled to a non-woven polypropylene fleece.
It provides an effective barrier against the three types of groundwater inflows (capillary humidity rise, hydrostatic groundwater pressure, soil infiltration water) and ground gases such as Radon.

APPLICATIONS

The **RENOLIT** ALKORPRO T membrane is suitable for waterproofing foundations, basements, tunnels, underground parking lots and all other concrete constructions in contact with the ground. It can be used in saline, acidic or alkaline environments due to its chemical resistance. The translucency of the membrane allows a better quality control during installation.
The **RENOLIT** ALKORPRO T membrane is used in pre-application, its geotextile facing the concrete to be poured.

REGULATIONS & STANDARDS

- CE Marking - EN 13967 and EN 13491.
- DIN 18195 Standard – new DIN 18533.
- DIN SPEC 20000-202 approved.
- Avis technique CSTB (on going).

STORAGE & HANDLING

The **RENOLIT** ALKORPRO T membrane has to be stored under dry conditions, and protected from severe weather conditions and direct sunlight. The storage temperature should be between +5°C and +30°C.

Description	Packaging
RENOLIT ALKORPRO T 1.2 mm Translucent PVC membrane. Width of free edge for welding = 50 mm	Width 1.08 m Length 20 m 18 rolls/pallet
RENOLIT ALKORPRO T 1.2 mm Translucent PVC membrane. Width of free edge for welding = 100 mm	Width 2.16 m Length 25 m 9 rolls/pallet

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RENOLIT ALKORPRO
Fully bonded membrane

PRODUCT PROPERTIES

Properties	Test standard	Units	Performance
Thickness -PVC-P -Geocomposite	EN 1848-2	mm	1.2 (+5%/-5%) 1.2 + 0,6 (+10%/-5%)
Surface Mass Geocomposite	EN 1849-2	kg/m²	1.564 (+10%/-5%)
Straightness	EN 1848-2	mm/10m	≤75
Colour	-	-	Translucent
Watertightness against water -24h/60kPa -72h/1000kPa	EN 1928	-	Watertight Watertight
Resistance to static load	EN 12730	kg	≥20
Tensile properties -Tensile strength -Elongation at break	EN 12311-2 (A) EN ISO 527/3	N/50mm %	≥600 ≥200
Durability against artificial aging 84d/(70°C, 60kPa)	EN 1296 EN 1928 (B) 24h/1000kPa	-	Watertight
Durability against chemicals Storage in solution 28d/23°C -Alkaline $Ca(OH)_2$ -Acid H_2SO_3 -Brine NaCl	EN 1847 EN 1928 (B) 24h/1000kPa	-	Watertight Watertight Watertight
Compatibility with bitumen 28d/70°C	EN 1548 EN 1928 (B) 72h/500kPa	-	Watertight
Resistance to impact	EN 12691 Method A Method B	mm mm	≥500 ≥2000
Tear resistance (nail)	EN 12310-1	N	≥500
Reaction to fire	EN 13501-1	-	Class E
Shear resistance of the welded seam (automatic welding machine)	EN 12317-2	N/50mm	600 breaks outside the welded joints
Resistance to static puncture	EN ISO 12236	kN	≥2.0
Permeability to liquids	EN 14150	$m^3/(m^2 \cdot d)$	$\leq 10^{-6}$
Resistance to oxidation (90d/85°C) -Residual tensile strength at break -Residual elongation at break	EN 14575 EN ISO 527/3	% %	>85 >85

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CONCRETE BONDING PROPERTIES

Properties	Test standard	Units	Performance
Crack bridging ability crack 3.2mm	ASTM D5385 (modified) 28d/690Kpa	-	Watertight
Resistance against lateral water flow -Hole Ø 23.5mm -Concrete(*) min. C20/25	EN 12390-8 (modified) 7d/500kPa	-	F3 until F6: watertight
Concrete adhesion property After 7d at 23°C After 28d at 23°C After 28d at 50°C	EN 1348	N/mm²	0.515 0.626 0.679

INSTALLATION

In the pre-applied application, the membrane is installed with the PP fleece facing the concrete side in such a way that the fibers of the fleece become embedded in the freshly poured concrete and bond permanently to the structure. The **RENOLIT** ALKORPRO T membrane can be installed very easily by mastic glue **RENOLIT** CEM 805, by thermal welding or by using a **RENOLIT** ALKORPRO BAND (butyl tape).

Sealing by mastic glue **RENOLIT** CEM 805.

Thermal welding.

Sealing by butyl tape **RENOLIT** ALKORPRO BAND.

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