

Technical Data Sheet

RENOLIT ALKORPRO C – Fully bonded membrane

Mint green PVC-P geomembrane for all concrete constructions below ground level

DESCRIPTION

The **RENOLIT** ALKORPRO C is a mint green 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. The product contains a high amount of recycled pre-consumer material and it is fully recyclable.

APPLICATIONS

The **RENOLIT** ALKORPRO C membrane is suitable for waterproofing foundations, basements, tunnels, underground parking lots and all other concrete constructions below ground level. It can be used in saline or alkaline environments due to its chemical resistance.

The **RENOLIT** ALKORPRO C 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
- Test Report PG-ÜBB / abP
- BDA Agreement Certification according to BS 8102: 2009 and NHBC

STORAGE AND HANDLING

The **RENOLIT** ALKORPRO C 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.

Code	Description	Packaging
35037 CGD	RENOLIT ALKORPRO C 1,2 mm Mint green PVC membrane Width of free edge for welding = 50 mm	Width 1,08 m Length 20 m 18 rolls/pallet
35037 CGE	RENOLIT ALKORPRO C 1,2 mm Mint green PVC membrane Width of free edge for welding = 100 mm	Width 2,16 m Length 25 m 9 rolls/pallet



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/m ²	1,564 (+10%/-5%)
Straightness	EN 1848-2	mm/10m	≤ 75
Colour	-		mint green
Watertightness against water - 24h/60 kPa - 72h/1000 kPa	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)	EN1296 - EN 1928 (B) 24h/ 1000kPa		watertight
Durability against chemicals Storage in solution 28d/23°C - alkaline Ca(OH) ₂ - acid H ₂ SO 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 /500 kPa		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 joint
Resistance to static puncture	EN ISO 12236	kN	≥ 2,0
Permeability to liquids	EN 14150	m ³ /(m ² ·d)	≤ 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



CONCRETE BONDING PROPERTIES

Properties	Test standard	Units	Performance
Crack bridging ability crack 3,5mm	ASTM D5385 (modified) <i>28d/690Kpa</i>		watertight
Resistance against lateral water flow hole Ø 20mm	ASTM D5385 (modified) <i>28d/690Kpa</i> EN 12390-8 (modified) <i>28d/500kPa</i>		watertight watertight
Concrete adhesion property After 7d at 23°C After 28d at 23°C After 7d at 50°C	EN 1348	N/mm ²	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 C membrane can be assembled 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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