

Technical data sheet

ActiTex RC

Product description

ActiTex RC is an active waterproofing membrane of high strength geotextiles encapsulating a sodium bentonite layer. Using a non-woven & woven geotextile which are needle punched together, the layer of sodium bentonite is retained within a strong membrane.

Technical parameters

Properties	Test method	Value
Geotextiles		
Non-woven	EN ISO 9864	200 g/m ²
Woven	EN ISO 9864	100 g/m ²
Polymeric membranę (0.2 mm)	EN ISO 9864	200 g/m ²
Physical parameters		
Total mass per unit area of GCL ⁽¹⁾⁽²⁾	EN ISO 14196	5500 g/m ²
Bentonite mass per unit area ⁽¹⁾⁽²⁾	EN ISO 14196	5000 g/m ²
Thickness	EN ISO 9863-1	8 mm
Standard roll dimensions	from 40.0m x 5.00m	
Hydraulic properties		
Flux index	EN ISO 16416	no flow
Flux index ⁽⁴⁾	EN ISO 16416	5 x 10 ⁻⁹ m ³ /m ² /s
Bentonite free swell index	ASTM D5890	24 ml/2g
Water Absorption		600%
Mechanical properties		
Tensile strength (MD/CMD) ⁽³⁾	EN ISO 10319	11,0 kN/m
Static puncture resistance (CBR) ⁽³⁾	EN ISO 12236	2,1 kN

⁽¹⁾ average value, tolerance 4%

⁽²⁾ at 12% moisture content

⁽³⁾ average value, tolerance 10%

⁽⁴⁾ Modified Test Method for delaminated material, water at salinity of 3,5% NaCl, average value, tolerance 0.5 x 10⁻⁹ m³/m²/s
All tolerances given with a 95% confidence level

Applications:

- Below ground structures wall & beneath slab
- Property line construction- secant, contiguous piles, steel sheet piling, permanent, shuttering, stabilized earth retention walls, king post walls
- Void formers, compacted ground, insulation, clay heave board, etc.
- Tunnels, earth covered roofs
- Structures under continuous or intermittent hydrostatic pressure

Advantages:

- Active self-healing properties
- Mechanical bond, eliminating water tracking
- Conformable, pliable – can be applied to varied contours & substrates
- Robust membrane
- Ease of repair
- All weather application, mechanical fix
- VOC free
- Proven world wide application
- Reproducible swell after wet-dry cycle
- Unaffected by freeze/thaw cycling

Installation:

- Unroll on smooth and compacted subgrade
- Subsequent panels lapped 300mm at leading edges
- Don't install in water without consultation

Packaging:

ActiTex is produced in 5m wide x 40m long panels, rolled onto a 100mm internal diameter central core, and protected with a plastic sleeve. Other panel sizes are available on request.

Storage:

Provided the rolls are kept inside their protective plastic sleeves, further on-site protection is not required.

Safety instruction:

There are no special safety measures required for the handling and installation of ActiTex, other than those normally implemented on construction sites.