

Product Sheet ActiMat NW50

Active Mineral Barrier

Product Description

ActiMat is a high specification geosynthetic clay liner, comprising of sodium bentonite encapsulated between two woven and non-woven needlepunched polypropylene geotextiles.

ActiMat adopts unique self-seaming overlaps technology which doesn't require any additional treatment of its longitudinal edges.

ActiMat NW50 Properties

Property	Test method	Value
<u>Physical properties</u>		
Total mass per unit area ¹	EN 14196	5500 g/sq. meter
Bentonite mass per unit area ¹	EN 14196	5200 g/sq. meter
<u>Hydraulic properties</u>		
Flux index ²	EN 16416	5x10 ⁻⁹ m ³ /m ² /s
Bentonite free swell index	ASTM D5890	24 ml/2g
Water Absorption		600 %
<u>Mechanical properties</u>		
Tensile strength ³	EN ISO 10319	8.5 kN/m
Static puncture resistance (CBR) ³	EN ISO 12236	1.8 kN

¹ average, at 12% moisture content, tolerance 4%

² average, tolerance 0,5x10⁻⁹ m³/m²/s

³ average, tolerance 10%

Application:

- Water reservoirs, dams and river embankments
- Liquid wastes disposals sites, transfer stations, secondary containment
- Transport infrastructure
- Canals
- Solid wastes storage and disposal sites

Advantages:

- Self-healing
- Robust construction
- Limited preparation work



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- Easy and quick installation
- Long performance
- All weather installation, including wet and frozen subgrades

Installation:

- Unrolled on smooth and compacted subgrade
- Subsequent panels lapped 300mm at leading edges

Packaging:

ActiMat 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 ActiMat, other than those normally implemented on construction sites.