

## Product Sheet ActiMat NW40

### 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.

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#### ActiMat NW40 Properties

Property	Test method	Value
<b><u>Physical properties</u></b>		
Total mass per unit area <sup>1</sup>	EN 14196	4500 g/sq. meter
Bentonite mass per unit area <sup>1</sup>	EN 14196	4200 g/sq. meter
<b><u>Hydraulic properties</u></b>		
Flux index <sup>2</sup>	EN 16416	$6 \times 10^{-9} \text{ m}^3/\text{m}^2/\text{s}$
Bentonite free swell index	ASTM D5890	24 ml/2g
Water Absorption		600 %
<b><u>Mechanical properties</u></b>		
Tensile strength <sup>3</sup>	EN ISO 10319	8.5 kN/m
Static puncture resistance (CBR) <sup>3</sup>	EN ISO 12236	1.8 kN

<sup>1</sup> average, at 12 % moisture content, tolerance 4%

<sup>2</sup> average, tolerance  $0,5 \times 10^{-9} \text{ m}^3/\text{m}^2/\text{s}$

<sup>3</sup> 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
- Easy and quick installation



**GDA**  
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- 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.