

# Voltite<sup>®</sup> Waterproofing Solutions

## BentoShield MAX LM

BentoShield MAX LM is a factory prehydrated, needle-punched and PE flexible membrane laminated GCL composed of homogeneous layer of sodium bentonite encapsulated between high geotextiles. BentoShield MAX LM acts as a dual protection system with its unique hydraulic and mechanical structure.

### GEOCOMPOSITE

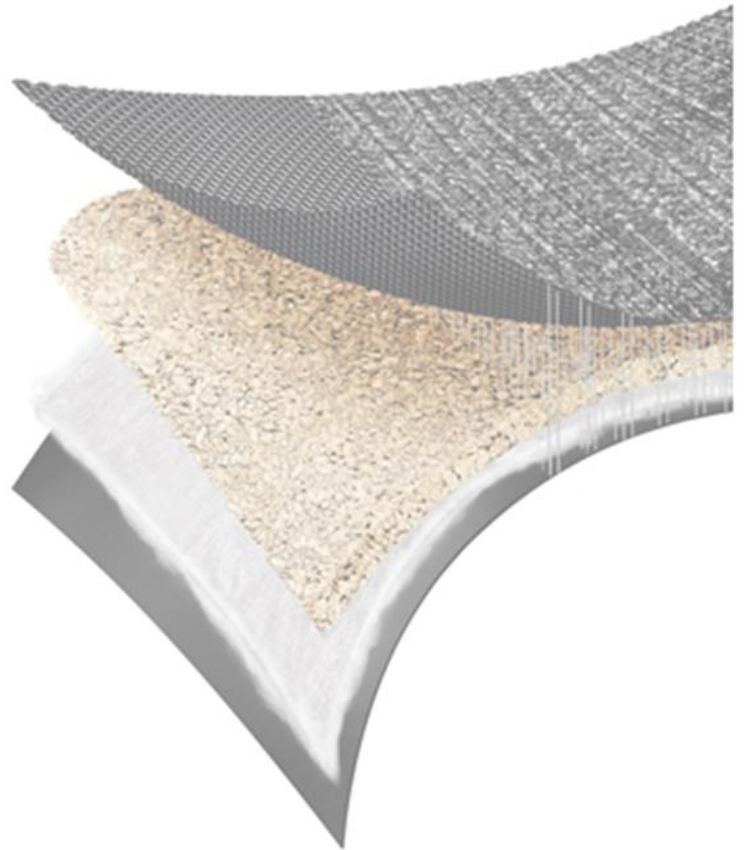
<b>Permeability</b> ASTM D 5887	< 1,0 x 10 <sup>-11</sup> m/sec
<b>Index Flux</b> ASTM D 5887	< 5,0 x 10 <sup>-9</sup> m <sup>3</sup> /sec·m <sup>2</sup>
<b>Tensile Strength</b> ASTM D 6768	> 10 kN / m
<b>CBR Puncture</b> EN ISO 12236	> 1850N
<b>Peel Adhesion to Concrete</b> ASTM D 903	> 2,5 kN/m
<b>Thickness</b> EN 964-1	6,5 mm

### BENTONITE LAYER

<b>Bentonite Content (1)</b> ASTM 5993	> 5000 g / m <sup>2</sup>
<b>Free Swell</b> ASTM D 5890	> 27 ml / 2g
<b>Fluid Loss</b> ASTM D 5891	< 15 ml
<b>Montmorillonite content</b> XRD Analysis	< 80%

### GEOTEXTILE LAYERS

<b>Non Woven - Mass/Unit Area</b> ASTM D 5261	200 g / sqm
<b>Woven - Mass/Unit Area</b> ASTM D 5261	110 g / sqm
<b>PE thickness</b> ASTM D 5199	0,2mm



### DIMENSION

width: 1,10–1,25–2,50–5,00

length: 5–25–40

\* different roll sizes available on demand

(1) min. weight of sodium bentonite with 15 % moisture content.  
(2) results are reported as nominal values with max.10% tolerance.

The values in the table are achieved in manufacturers laboratories and accredited testing institutes by following the ASTM Standards and GeoShield quality plan.