



# Voltite® Waterproofing Solutions

## VOLTITE CM Plus

Voltite CM Plus is a mechanically bonded composite, consisting of concrete-sand mix, embedded and fixed between two layers of geo-textile.

### PROPERTIES OF GEOTEXTILE

<b>Carrier Layer</b> –PP Nonwoven Composite ENISO 9864	350 gm <sup>2</sup>
<b>Cover Layer</b> –PP Nonwoven ENISO 9864	200 gm <sup>2</sup>
<b>PE Membrane</b> PNEN 1849-2	0,2 mm**

### PROPERTIES OF CONCRETE

<b>Chemical Composition</b> XRF	Sand Cement Mix
<b>Density</b> Typical	1,42 g/cm <sup>3</sup>
<b>Setting Start</b> PNEN 196-3	>90 min

### PROPERTIES OF VOLTITE CM(1)

<b>Tensile Strength MD/CD</b> ENISO 10319	≥20,0/20,0 Kn/m (±10%)
<b>CBR Puncture Strength</b> ENISO 12236	≥3,0 Kn (±10%)

### PROPERTIES OF VOLTITE CM(2)

<b>Compressive Strength</b> ASTM C 109-02	40 Mpa
<b>Bending tests based</b> PNEN 12467/2016-08-54-3	6,0 MPa–Class I
<b>Water Impermeability</b> PNEN 12467/2016-08-54-6	Imperable
<b>Durability against Freeze-thaw</b> PNEN 12467/2016-08-55-2	R <sub>t</sub> ≥ 0,75 Pass
<b>Durability against Heat-rain</b> PNEN 12467/2016-08-55-3	R <sub>t</sub> ≥ 0,75 Pass
<b>Durability against warm water</b> PNEN 12467/2016-08-55-4	R <sub>t</sub> ≥ 0,75 Pass
<b>Durability against Soak-dry</b> PNEN 12467/2016-08-55-5	R <sub>t</sub> ≥ 0,75 Pass
<b>Reaction to Fire</b> PNEN 12467/2016-08-56	B-s1, d0*

Properties of Voltite CM Plus (1)	Voltite CM 7 Plus	Voltite CM 9 Plus	Voltite CM 10 Plus	Voltite CM 12 Plus
Mass per unit area of concrete EN 14196	7000 g/m <sup>2</sup> (±10%)	9000 g/m <sup>2</sup> (±10%)	10000 g/m <sup>2</sup> (±10%)	12000 g/m <sup>2</sup> (±10%)
Mass per unit area of Voltite CM Plus EN 14196	7550 g/m <sup>2</sup> (±10%)	9550 g/m <sup>2</sup> (±10%)	10550 g/m <sup>2</sup> (±10%)	12550 g/m <sup>2</sup> (±10%)
Thickness EN ISO 9863-1/-2	7,2 mm (±1mm)	9,2 mm (±1mm)	10,2 mm (±1mm)	12,2 mm (±1mm)

Standard Roll Dimensions	Test Method	Value
Width x Length	Typical	(5,0 x 20) m / (2,5 x 20) m
Quantity	Typical	100m <sup>2</sup> / 50 m <sup>2</sup>

1) Before hydration (2) After hydration \*complies with EN 13501-1 \*\* Manufacturer can use foil in range of 0,2 – 2  
The data are average values derived from standard tests and are subject to usual product variation. The right is reserved to make changes without notice at any time.