



Applications

- Embankments
- Replacing Shotcrete
- Bund Lining
- Slope Stabilization
- Mattress Spillways
- Trenches/Swale Drains

mastaTEX® Concrete

mastaTEX® Concrete is a needle punched composite, consisting of concrete-sand mix, embedded and fixed between two layers of geo-textile. It is much faster and cheaper to install than conventional materials, and our strict quality control of raw materials makes the finished product fail-proof. It provides a substrate for direct applications of a thin protective layer of regular concrete, which may be used in various weather conditions. The fabric is fastened to an outer part with nails, which provides a solid water-resistant surface stabilisation, further braced thanks to internal reinforcing fibres.

mastaTEX® Concrete Specifications

Properties of Geotextile	Test Method	40MPA	80MPA	
Carrier Layer - PP Nonwoven Composite	EN ISO 9864	350 g/m ²	350 g/m ²	
Cover Layer - PP Nonwoven	EN ISO 9864	200 g/m ²	200 g/m ²	
Properties of Concrete				
Chemical Composition	XRF	Sand-cement mix	Sand-cement mix	
Density	Typical	1,42 g/cm ³	1,42 g/cm ³	
Setting Start	PN-EN 196-3	> 90 min	> 90 min	
Properties of mastaTEX (1)				
Tensile Strength MD/CMD	EN ISO 10319	≥ 20,0 / 20,0 kN/m (±10%)	≥ 20,0 / 20,0 kN/m (±10%)	
CBR Puncture Strength	EN ISO 12236	≥ 3,0 kN (±10 %)	≥ 3,0 kN (±10 %)	
Properties of mastaTEX (2)				
Compressive Strength	ASTM C 109-02	40 Mpa	80 Mpa	
Bending Tests Based	PN EN 12467:2016-08 5.4.3	6.0 MPa – Class 1	14.5 MPa	
Water Impermeability	PN EN 12467:2016-08 5.4.5-6	No drop of water	No drop of water	
Durability against Freeze-thaw	PN EN 12467:2016-08 5.5.2	RL ≥ 0,75 Pass	RL ≥ 0,75 Pass	
Durability against Heat-rain	PN EN 12467:2016-08 5.5.3	RL ≥ 0,75 Pass	RL ≥ 0,75 Pass	
Durability against warm water	PN EN 12467:2016-08 5.5.4	RL ≥ 0,75 Pass	RL ≥ 0,75 Pass	
Durability against Soak-dry	PN EN 12467:2016-08 5.5.5	RL ≥ 0,75 Pass	RL ≥ 0,75 Pass	
Reaction to fire	PN EN 12467:2016-08 5.6	B-s1, d0*	B-s1, d0*	
Properties of mastaTEX (1)	mastaTEX Concrete 7	mastaTEX Concrete 9	mastaTEX Concrete 10	mastaTEX Concrete 12
Mass per unit area of concrete EN 14196	7000 g/m ² (±10%)	9000 g/m ² (±10%)	10000 g/m ² (±10%)	12000 g/m ² (±10%)
Mass per unit area of mastaTEX EN 14196	7550 g/m ² (±10%)	9550 g/m ² (±10%)	10550 g/m ² (±10%)	12550 g/m ² (±10%)
Thickness EN ISO 9863-1/-2	7,0 mm (±1mm)	9,0 mm (±1mm)	10,0 mm (±1mm)	12,0 mm (±1mm)
Width x Length	(5,0 x 20) m / (2,5 x 20) m			
Quantity	100 m ² / 50 m ²			

(1) before hydration (2) after hydration *complies with EN 13501-1 *Specifications as per manufacturer