TECHNICAL DATASHEET

TILTEX / TILTEX PLUS

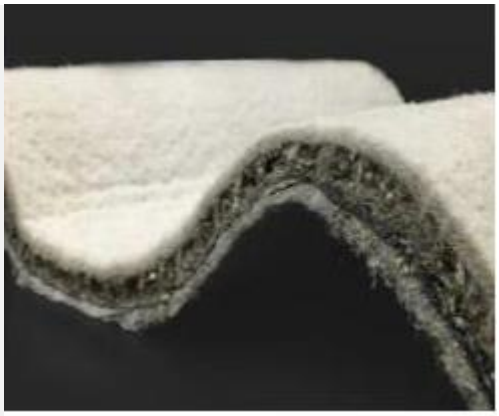
CEMENTITIOUS GEOCOMPOSITE

DESCRIPTION

TILTEX / TILTEX PLUS are cementitious geocomposites composed of two non woven polypropylene geotextiles embedding a cement-sand mix. The whole is maintained by an intense needling process.
TILTEX PLUS is backed on the bottom side with a 0,2 mm film to increase its watertightness.
TILTEX / TILTEX PLUS makes it possible to obtain a fibre reinforced concrete slab with a smooth and regular surface used for:

- erosion control – use on slopes, ditches and canals
- mechanical protection – use as a protection of geomembranes or as a temporary protection
- blinding concrete / reinforcement support
- temporary support

Depending on the desired applications and the required property, the choice will be cement / sand masses of either 7 kg/m², 9 kg/m², 10 kg/m² or 12 kg/m².



APPLICATION

TILTEX / TILTEX PLUS is directly unrolled on the substrate, anchored if necessary, and hydrated by spraying water:

- Approx. 3,5 l/m² for TILTEX 7
- Approx. 4,5 l/m² for TILTEX 9
- Approx. 5 l/m² for TILTEX 10
- Approx. 6 l/m² for TILTEX 12

These quantities are indicative and depend on the weather conditions as the product needs to be kept wet for at least 48 h.
During curing, the cement-sand mix reacts and hardens to obtain a thin concrete slab. The presence of needle punched synthetic fibres in the geosynthetic ensures excellent mechanical strength.
In case TILTEX / TILTEX PLUS is exposed to UV, the cover geotextile will disappear giving way to a smooth surface of grey concrete.

SPECIAL INDICATIONS

Hygiene, Health and Environment
The product does not contain any substance which is likely to be detrimental to your health or to the environment and complies with generally admitted Health and Safety Requirements.

Quality-, Environment- and Safety Management
SOPREMA always recognises as a high level of importance the quality of the products, the environment and safety. For this reason, we operate independently monitored Quality and Environment Assurance Systems in line with **EN ISO 9001** and **EN ISO 14001**.

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TECHNICAL DATASHEET

CHARACTERISTICS

Composition		Unit	TILTEX 7	TILTEX 9	TILTEX 10	TILTEX 12	
Finish upper side			non woven polypropylene geotextile				
Mass geotextile upper side		g/m²	200				
Mass cement sand mix		kg/m²	± 7	± 9	± 10	± 12	
Finish lower side ***			non woven polypropylene geotextile				
Mass geotextile lower side		g/m²	350				
Technical characteristics	**Standard**		**Value**				**Tolerance**
Thickness	EN 9863-1	mm	7	9	10	12	± 1
Mass *	EN 1849-2	kg/m²	7,5	9,5	10,5	12,5	± 10 %
Tensile force (L / T) *	EN 10319	kN/m	≥20 / ≥20				
Elongation at break (L / T) *	EN 10319	%	≥40 / ≥40				
Resistance to static puncture (CBR) **	EN 12236	N	≥3000				
Dynamic puncture resistance **	EN 13433	mm	0				
Pyramid puncture resistance **	EN 14574	N	≥5000				-10 %
Compressive strength **	ASTM C 109-2	MPa	40				
Setting start	EN 196-3	min	>90				
Bending resistance (MOR) **	EN 12467	class	class 1 (category A4)				
Fire resistance **	EN 13501-1	class	B-s1, d0				
Water impermeability **	EN 12467		no drop of water				
Durability **:							
- warm water resistance	EN 12467	RL	≥0,75				
- soak–dry resistance		RL	≥0,75				
- freeze–thaw resistance		RL	≥0,75				
- heat-rain resistance			conform				
Packing							
Dimensions of the roll	EN 1848-1	m	≥ 20 x 5 - 20 x 2,5 - 5 x 1				

*before hydration
**after hydration
***TILTEX PLUS is backed with 0,2 mm film

The rolls are individually wrapped. 2,5 and 5 m wide rolls are equipped with a single-use lifting strap. 1 m wide rolls are placed on a pallet.

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