



Technical Data Sheet

GEOCRETE 7, 8, 10 and 12 kg/m²

CIMENTITIOUS GEOCOMPOSITE MAT (GCCM)

USE – APPLICATION OF GEOCRETE

GEOCRETE is a geocomposite made of cement-sand mix, embedded and fixed between two layers of geotextile. Delivered in rolls and hydrated on site, GEOCRETE makes possible to obtain a fiber 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 or 8 kg/m² or 10 kg/m² or 12 kg/m².



GEOCRETE is unrolled directly on the substrate, nailed if necessary, and hydrated by spraying water:

- Approx. 3.5 l/m² for GEOCRETE 7 kg.m²
- Approx. 4.5 l/m² for GEOCRETE 8 kg/m²
- Approx. 5 l/m² for GEOCRETE 10 kg/m²
- Approx. 6 l/m² for GEOCRETE 12 kg/m².

These quantities are indicative and depend of the weather conditions as the product needs to be kept wet for at least 48h.

During curing, the cement-sand mix reacts and hardens to obtain a thin concrete slab. The presence of needle punched synthetic fibers in the geosynthetic ensures excellent mechanical strength.

In case GEOCRETE is exposed to UV, the cover geotextile will disappear giving way to a smooth surface of grey concrete.

DESCRIPTION

GEOCRETE is a geocomposite made with two pure polypropylene geotextiles embedding a cement-sand mix.

The whole process is maintained by an intense needling process made in the plant systems and are certified ISO 9001:2015.

MAIN ADVANTAGES OF GEOCRETE

Quick to install

Easy to adapt on the substrate

Sure and resistant

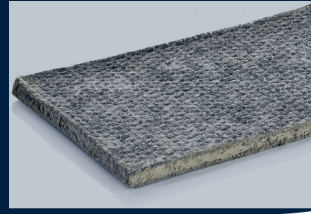
Environment friendly

Durability



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CHARACTERISTICS

ESSENTIAL CHARACTERISTICS	Standard	GEOCRETE 7	GEOCRETE 8	GEOCRETE 10	GEOCRETE 12	EN 13253, EN 13254, EN 13255, EN 13256 and EN 13257 (system 2+)
Thickness (mm)*	ASTM D5199	7.00 (± 1 mm)	8.00 (± 1 mm)	10.00 (± 1 mm)	12.00 (± 1 mm)	
Mass per unit area (kg/m ²)*	ASTM D5993	7.90 (± 10%)	9.50 (± 10%)	10.56 (± 10%)	12.58 (± 10%)	
Maximum tensile strength*	ASTM D6768	Max 20 Max 18				
Longitudinal (kN/m)						
Transversal (kN/m)	ASTM D6768	≥ 20 ≥ 15				
Elongation at break*						
Longitudinal (%)						
Transversal (%)	ASTM D5494	≥ 3000				
Static puncture resistance (CBR) (N)						
Dynamic puncture resistance (mm)	ASTM D5494	0				
Durability**	ASTM D5721					
	ASTM D5721	NDP (not concerned)				
Bending resistance (MOR)**	ASTM D8058					
Fire resistance**	EN 13501-1	B-s1, d0				
Dangerous substances	EN 12467					
Water impermeability**	ASTM D 5887	No drop of water				
Durability – Warm water resistance**	EN 12467					
Durability – Soak-dry resistance**	EN 12467	R _L ≥ 0.75				
Durability – Freeze-thaw resistance**	ASTM D8058/C1185					
Durability – Heat-rain resistance**	EN 12467	R _L ≥ 0.75 Conform				

CARACTERISTIQUES COMPLEMENTAIRES	Standard	GEOCRETE 7	GEOCRETE 8	GEOCRETE 10	GEOCRETE 12	EN 12467 (system 4)
Compressive strength (MPa)**	ASTM D 8329	< 40				
Setting start (min)	EN 196-3					

* before hydration / ** after hydration and properly curing for required 28 days

PACKAGING

Size of the rolls	2.5m or 5m wide X 20m / 40m or designed as per site requirement
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The rolls are individually wrapped. The rolls 5m / 2.5m wide are equipped with a single-use lifting strap.

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