

**CIVIL
ENGINEERING**
SOLUTION

Construck Tex
Cementitious geocomposite

Construck Tex

Construck Tex® is a cementitious geocomposite. It may be used in, many applications which request protection board, reinforcement, or erosion control.



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COMPOSITION

Construck Tex is made with:

- a polypropylene geotextile layer,
- a layer of cement-sand mix,
- a polypropylene geotextile layer.

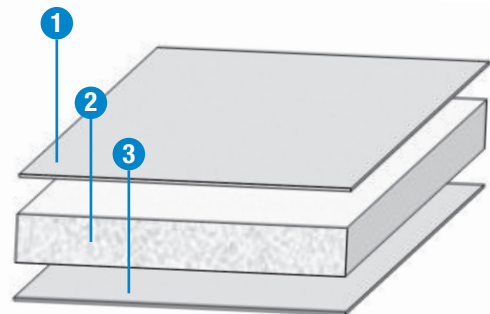
The whole is maintained by an intense needling made in the plat in order to allow the fibers to bind the two geotextile layers together, strengthen the base of the mortar and make the product workable.

Construck Tex is delivered on site in rolls, placed and fixed on the substrate.

Once implemented, the product is hydrated by watering to react and form a layer of resistant concrete reinforced with fibers.

Construck Tex SYSTEM

- 1- Polypropylene geotextile
- 2- Cement-sand mix
- 3- Polypropylene geotextile



Construck Tex PLUS

It is also possible to support **Construck Tex** with a polypropylene or polyethylene 0.2mm thick film to increase its tightness.



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WHY SHALL YOU USE Construk Tex ?

Construk Tex is first an excellent system to easily build a slight reinforced concrete slab in a rapid, sure and environmentally friendly way. **Construk Tex** is :



Quick to install

Delivered in rolls, **Construk Tex** does not need any formwork or concrete delivery, just water !



Environmentally friendly

The use of **Construk Tex** makes it possible to limit the thickness of concrete used for protection and foundations. It also avoids significant projections with no spraying of shotcrete. Finally, it may be used to restore the surface of already existing concrete solutions without demolition.



Sure

The product contains the quantity of cement suitable to the desired use. The cement is maintained between the geotextiles and there is no loss of thickness despite the type of application.



Easy to adapt

Flexible before hydration, **Construk Tex** adapts to all shapes and all surface. It can be laid down, vertically, curved... Moreover, it can be easily cut to adapt to the dimensions of the place of application.



Durable

Thanks to its concrete layer, **Construk Tex** is very resistant to static punching and erosion. If **Construk Tex** is exposed to UV for a long time, the surface geotextile will disintegrate leaving the layer of hardened concrete visible. The fibers crossing the concrete will ensure the good resistance of the product to cracking.

Construk Tex, in some cases, might be installed as a fire protection. **Construk Tex** is classified B-s1, d0 (non-flammable) according to the standard EN 13501-1.

SELECTION GUIDE TABLE

The selection guide shows examples of application and the right product for each use of **Construck Tex** (and **Construck Tex Plus** if necessary).

TYPE OF WORKS	Construck Tex 7	Construck Tex 9	Construck Tex 10	Construck Tex 12
Blinding concrete	✓	✓	✓	✓
Slope erosion control / Studded walls	✓	✓	✓	✓
Waterproofing membrane top protection (water tanks)	✓	✓	✓	✓
Mechanical protection of underground cables and pipes	✓	✓	✓	✓
Water tank concrete surface restoration	✓	✓	✓	✓
Stabilization of drilling shafts	✓	✓	✓	✓
Ground stabilization	✓	✓	✓	✓
Underlay of lines / paving	✓	✓	✓	✓
Underlay of sandboxes / bunkers	✓	✓	✓	✓
Protection under flexible pools	✓	✓	✓	✓
Waterproofing temporary protection	✓	✓	✓	✓
Gabion protection	✓	✓	✓	✓
Road ditches / nozzles recovery	✗	✓	✓	✓
Canals and weirs covering	✗	✗	✓	✓
Mechanical protection of membrane under reinforcement (basements)	✗	✗	✓	✓
Protection against sea swell	✗	✗	✗	✓
Waterproofing membrane top protection (landfills)	✗	✗	✗	✓
Maintenance ways on geomembrane	✗	✗	✗	✓
Support for vehicle temporary circulation	✗	✗	✗	✓

The information given in this table is indicative and is subject to verification according to the specification of each project. However, the choice of the product and the amount of cement/sand mix to be used depends on the properties that need to be obtained.

As an example, the following points should be relevant to define the right product:

- Temporary or definitive application
- Erosion control with water flow presence
- Better resistance to dynamic puncture; Static puncture
- Weight of reinforcement bars in case of use as a blinding concrete
- Requested waterproofing
- Requested fire protection

If necessary, the technical teams of **Construck** can help you choose the right **Construck Tex** adapted to your project. For further informations, please contact us by email at **n o construck e**.

INSTALLATION OF Construck Tex

Example of installation of **Construck Tex** in a ditch:



1- Sealed packaging.



2- **Construck Tex** unrolling.



3- Side fixing.



4- Abundant watering.



5- Completed installation.

Opening the packaging

It is important that the packaging is not damaged before opening. If the packaging has been damaged during transport, make sure that the product has not been hydrated and the concrete is not hard.

Unrolling

Construck Tex rolls of large width must be unrolled with suitable lifting equipments and lifting beam.

Overlapping

An overlap of 10 to 20cm is recommended depending on the application. In the case where **Construck Tex** is used for erosion control, the overlap is arranged in tiles.

Fixing

It is recommended to fix all **Construck Tex** panels with the **Construck Tex** nails P1, P2, P3 or P4, depending the soil. When the product is placed vertically, a lateral fixation (by nailing) is necessary every 2m high.

Watering

Watering is done by spraying without pressure and must be abundant. The indicative minimum quantities of water to be applied are as follows:

- About 3,5 l/m² of water for **Construck Tex** 7 kg/m²
- About 4,5 l/m² of water for **Construck Tex** 9 kg/m²
- About 5 l/m² of water for **Construck Tex** 10 kg/m²
- About 6 l/m² of water for **Construck Tex** 12 kg/m²

End of the installation, the ditch is protected.

TECHNICAL CHARACTERISTICS OF PRODUCTS

ESSENTIAL CHARACTERISTICS	Standard	Construck Tex 7	Construck Tex 9	Construck Tex 10	Construck Tex 12
Thickness (mm)*	EN 9863-1	7,00 (± 1mm)	9,00 (± 1mm)	10,00 (± 1mm)	12,00 (± 1mm)
Mass per unit area (kg/m²)*	EN 1849-2	7,55 (± 10%)	9,55 (± 10%)	10,55 (± 10%)	12,55 (± 10%)
Maximum tensile strength* Longitudinal (kN/m) Transversal (kN/m)	EN 10319	≥ 20 ≥ 20			
Elongation at break* Longitudinal (%) Transversal (%)	EN 10319	≥ 40 ≥ 40			
Static puncture resistance (CBR) (N)	EN 12236	≥ 3 000			
Dynamic puncture resistance (mm)	EN 13433	0			
Durability**	EN 12226	NDP (not concerned)			
	EN 12224	NDP (not concerned)			
Bending resistance (MOR)**	EN 12467	Class 1 (category A4)			
Fire resistance**	EN 13501-1	B-s1, d0			
Dangerous substances	EN 12467	NPD			
Water impermeability**	EN 12467	No drop of water			
Durability – Warm water resistance**	EN 12467	RL ≥ 0.75			
Durability – Soak-dry resistance**	EN 12467	RL ≥ 0.75			
Durability – Freeze-thaw resistance**	EN 12467	RL ≥ 0.75			
Durability – Heat-rain resistance**	EN 12467	Conform			

EN 13253, EN 13254, EN 13255, EN 13256 and EN 13257 (system 2+)

EN 12467 (system 4)

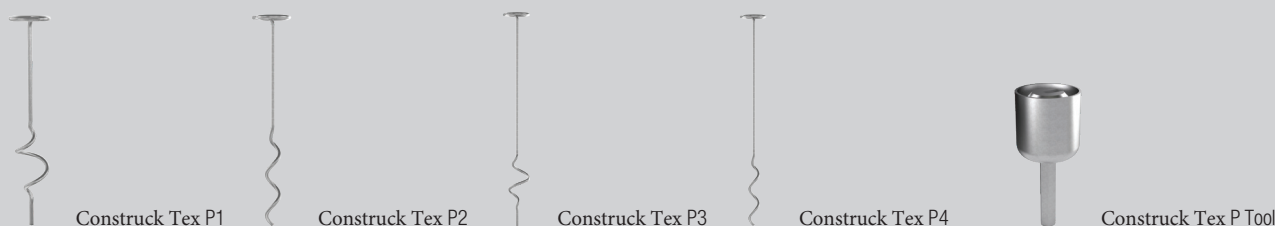
COMPLEMENTARY CHARACTERISTICS	Standard	Construck Tex 7	Construck Tex 9	Construck Tex 10	Construck Tex 12
Compressive strength (MPa)**	ASTM C 109-2	40			
Setting start (min)	EN 196-3	> 90			

* Before hydration / ** After hydration

In **Construck Tex Plus**, the presence of the polyethylen 0.2mm film gives a better tightness without any change of product performance.

ANCHORING

Construck Tex P is an anchor to drill made with galvanized steel under two profiles : one for soft ground types and one for hard ground types. The system **Construck Tex® P** is easy and quick to install with its **Construck Tex P Tool** mounted on a normal drilling machine. The special head of **Construck Tex P** allows it to maintain the geocomposite without use of any washer.



Product	Anchorage depth (mm)	Soil types
Construck Tex P1	200	Soft ground
Construck Tex P2	200	Hard ground
Construck Tex P3	300	Soft ground
Construck Tex P4	300	Hard ground

LOGISTIC INFORMATION

The rolls are individually wrapped. The rolls 5m and 2.5m wide are equipped with two single-use lifting straps. 1m wide rolls are placed on a pallet.



HANDLING AND STORAGE

Construck Tex 7 / Construck Tex PLUS 7

Dimensions	References	Conditioning	m ² /camion	Weight by roll
5m x 20ml	00118648 / 00118651	Individually wrapped	3,000m ² (30 rolls) by truck	755 kg
2.5m x 20ml	00118649 / 00118652	Individually wrapped	3,000m ² (60 rolls) by truck	377 kg
1m x 5ml	00118650 / 00118653	12 rolls by palet	2,520m ² (504 rolls) by truck	38 kg

Construck Tex 9 / Construck Tex PLUS 9

Dimensions	References	Conditioning	m ² /camion	Weight by roll
5m x 20ml	00118654 / 00118657	Individually wrapped	2,400m ² (24 rolls) by truck	955 kg
2.5m x 20ml	00118655 / 00118658	Individually wrapped	2,400m ² (48 rolls) by truck	477 kg
1m x 5ml	00118656 / 00118659	12 rolls by palet	2,400m ² (480 rolls) by truck	48 kg

Construck Tex 10 / Construck Tex PLUS 10

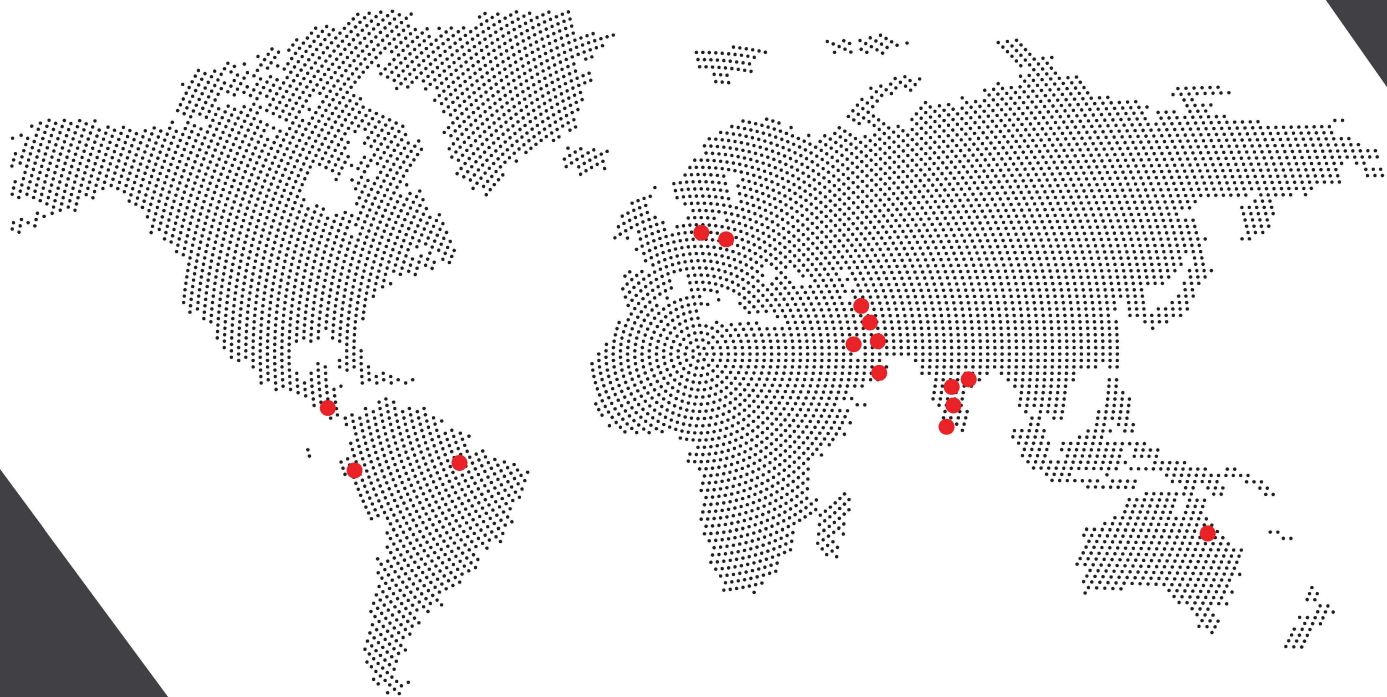
Dimensions	References	Conditioning	m ² /camion	Weight by roll
5m x 20ml	00118660 / 00118663	Individually wrapped	2,200m ² (22 rolls) by truck	1055 kg
2.5m x 20ml	00118661 / 00118664	Individually wrapped	2,200m ² (44 rolls) by truck	527 kg
1m x 5ml	00118662 / 00118665	12 rolls by palet	2,160m ² (432 rolls) by truck	53 kg

Construck Tex 12 / Construck Tex PLUS 12

Dimensions	References	Conditioning	m ² /camion	Weight by roll
5m x 20ml	00118666 / 00118669	Individually wrapped	1,800m ² (22 rolls) by truck	1255 kg
2.5m x 20ml	00118667 / 00118670	Individually wrapped	1,800m ² (44 rolls) by truck	627 kg
1m x 5ml	00118668 / 00118671	12 rolls by palet	1,800m ² (360 rolls) by truck	63 kg

ANCHORING

Products	References	Conditioning
Construck Tex P1	00118995	200 units per box
Construck Tex P2	00118996	200 units per box
Construck Tex P3	00118997	150 units per box
Construck Tex P4	00118998	150 units per box
Construck Tex P Tool	00118999	Individual packing



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