

PTT CHINA CONCRETE MAT CLOTH

Technical Specification

PTT CHINA Concrete Mat Cloth(CMC) was made by special needle punch process with PE Film lamination. The pile fibers between top and bottom layer extend across the spacer between lower and upper faces. Pioneertex patented settable concrete material was introduced into the space between the upper and lower faces. It can be caused to set by the addition of water only. Until set, the fabric is flexible and can be shaped! But after the material in space has set, the fabric is very rigid and can be used as a structural element in a wide range of situations.

CMC Physical Properties

CMC	Thickness (mm)	Mass(unset) (kg/m ²)	Density(unset) (kg/m ³)	Density(set) (Kg/m ³)	Roll Width (m)
CMC5	5	8	1500	20%	1.4
CMC8	8	11	1500	20%	1.4
CMC13	13	18	1500	20%	1.4

Pre-set CC Properties

Setting

Working time: 1-2 hours subject to ambient temperature.

CC will achieve 70-80% strength at 24 hours after hydration.

Method of hydration

Spray the fiber surface with water until it feels wet to touch for several minutes after spraying.

Re-spray the CC again after 1 hour if:

1. installing CC in a steep or vertical surface;
2. Installing in warm climates;

Notes:

1. CMC can not be over hydrated and an excess of water is always recommended;
2. Minimum ratio of water:CMC by weight: 1:4
3. Don't jet high pressure water directly onto the CMC as this may wash a channel in CMC.
4. Please use non-saline water for hydration. If CMC will be used for sea projects, please advise us beforehand.
5. CMC can hydrate and set under water;

6.CMC has a working time of 1-6hours after hydration. Don't move or touch CMC once it has begun to set.

7.Working time will be reduced in hot climate;

8.CMC will set hard in 2-3 hours,but will continue to gain strength for several months.

Set CC Properties

Strength: PioneerTex Concrete Mat Cloth has very high early strength

Item	Test Method	MARV
Compressive Strength	ASTMC109-02	40 Mpa
Bending Strength	BS EN12467:2004	3-4 Mpa
CBR Puncture Strength	EN ISO12236:2007	3.5KN

	Tensile Strength(KN/M)	
	Length Direction	Width Diection
CMC5	25	20
CMC8	28	24
CMC12	32	28

Other

Item	Test Method	Value
Freeze-thaw resistance	BS EN12467:2004 Part5.5.2	pass
Soak Dry	BS EN12467:2004 Part5.5.5	pass
Water Impermeability	BS EN12467:2004 Part5.4.4	pass
Fire Retardant	16 CFR PART 1633	pass

Disclaimer: PTT CHINA reserves the right to change these specifications without notice and at its sole discretion. User of this specification sheet is required to obtain formal confirmation from PIONEERTEX of the current specification of the product it intends to use.