

Concrete Cloth (CC), is a flexible, cement impregnated fabric that hardens when hydrated to form a thin, durable, water and fire proof concrete layer. It has a wide range of applications in the construction and DIY sectors. CC can be used for high traffic interior or exterior flooring applications and for wall cladding.

CC is manufactured in 1.1m wide rolls and is available in three standard thicknesses, CC4, CC8 and CC13. Two methods are prescribed for the water proof jointing of adjacent CC layers; "Overlapping" and "Polyurethane Joint Sealing". The preparation of the cloth is identical in both techniques when laying CC ground surfacing.

Installation Conditions

Temperature should be between +5C and +40C

Substrate Preparation

Ground substrate should be levelled and compacted.

CC Packaging

CC is supplied in 10m roll lengths as standard, packaged in air tight, heavy grade polythene packaging. The material is supplied wound around 3" core cardboard tubing with the PVC backing surface on the outside face.

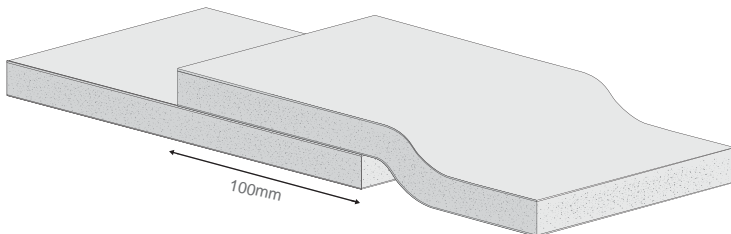
CC has a suggested shelf life of 2 years if stored in ideal conditions with the air tight packaging intact. It is recommended that the Cloth is used immediately upon opening.

CC Positioning

The CC roll should be positioned such that it can be unrolled with it's fibrous surface facing upwards and the PVC backed face in contact with the substrate. This direction is indicated on the packaging.

Joining Technique 1. CC Overlapping

Where the application allows, it is recommended to overlap layers of CC by a minimum of 100mm. This is the quickest method to achieve an effective seal where water proofing is not critical.



Joining Technique 2. Polyurethane Joint Sealing

Where water proofing is critical, it is recommended to use either a polyurethane based sealant and/or bitchumen backing tape.

CC Positioning

Adjacent layers of Concrete Cloth should be positioned in parallel, set apart by a uniform distance equal to the material thickness. e.g. CC13 layers should be set at 13mm apart.

It is recommended to lay battens of the correct width between layers to set a uniform joint. These should remain in position until the material has fully set.

CC Preparation

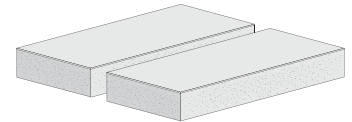
To avoid staining, it is recommended to lightly brush down CC layers, to remove pools of overlying cement dust, prior to hydration.

CC Hydration

Once in position, CC should be fully saturated and left to set for 24 hours. The Cloth can be hydrated either by spraying or where possible, fully immersing the Cloth in water before being positioned. Once hydrated, the material has a working time of approx. 2 hours subject to temperature.

Joint Face Preparation

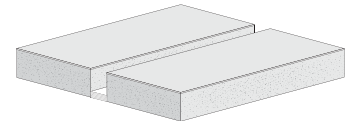
Once the CC has set, joint faces should be cleaned and made free from grease, cement dust or any other substance likely to impair adhesion.



Clean joint faces

Bond Breaker Tape

For joint seals between layers of CC13, it is recommended to install polyethylene or silicone faced self-adhesive bond breaker tape.

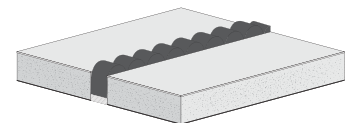


Install self-adhesive bond breaker tape

This is to prevent three sided adhesion, control the depth of the sealant and provide a firm base for tooling the sealant.

Sealant Application

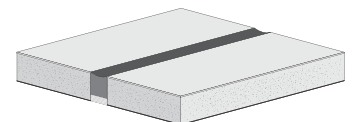
Apply the polyurethane sealant between the CC layers with a conventional skeleton or caulking gun. Tool after application to ensure full firm contact with joint faces and produce a flush finish.



Apply polyurethane sealant between CC layers

Cleaning

Remove excess sealant and smears adjacent to joint (use masking tape where appropriate). Allow sealant to cure according to time prescribed by sealant manufacturer.



Tool sealant

Cross Section

