

E E P R

EXTERNAL ENVIRONMENT Product Review

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NEW RANGE

The Sand Factory by

Proludic
play and sports areas

Introducing Concrete Cloth - Concrete Impregnated Fabric

Concrete Cloth (CC), is a flexible, cement impregnated fabric that hardens when hydrated to form a thin, durable, water and fire proof concrete layer.

CC allows concrete construction without the need for plant or mixing equipment. Simple position the cloth and just add water.

CC consists of a 3-dimensional fibre matrix containing a specially formulated dry concrete mix. A PVC backing on one surface of the cloth ensures the material is completely waterproof. The material can be hydrated either by spraying or by being fully immersed in water. Once set, the fibres reinforce the concrete, preventing crack propagation and providing a safe plastic failure mode.

CC is available in 3 thicknesses: CC5, CC8 and CC13, which are 5, 8 and 13mm thick respectively.

CC KEY FACTS

EASY TO USE

CC is available in man portable rolls for applications with limited access or where heavy plant equipment is not available. There is no need for mixing or measuring, the concrete is premixed and cannot be over hydrated. It will set underwater and in sea water.

RAPID

Once hydrated, CC remains workable for 2 hours and hardens to 80% strength within 24 hours. Accelerated or retarded formulations can be produced to meet specific customer requirements.

ENVIRONMENTALLY FRIENDLY

CC is a low mass, low carbon technology which uses up to 95% less material than conventional concrete for many applications. It has minimal impact on the local ecology due to its limited alkaline reserve and very low wash rate.

FLEXIBLE

CC has good drape characteristics allowing it to take up the shape of complex surfaces including those with a double curvature. The unset Cloth can be cut or tailored using basic hand tools.

STRONG

The fibre reinforcement prevents cracking, absorbs energy from impacts and provides a stable failure mode.

DURABLE

CC is chemically resistant, has good weathering performance and will not degrade in UV.

WATERPROOF

The PVC backing on one surface ensures that the material is completely waterproof and chemically resistant.

FIREPROOF

CC is a ceramic and will not burn. It has achieved Euroclass classification B-s1, d0 according to BS EN 13501-1:2007+A1:2009.



CC Batched Rolls



CC Bulk Roll



CASE STUDY - M4 Wiltshire

Enterprisemouchel is the UK Highways Agency Managing Agent Contractor for Area 3 which includes the M4 motorway. As part of an ongoing programme Enterprisemouchel needed to clear and repair an interceptor drain adjacent to the M4, with a key project requirement to introduce a series of cascades in order to reduce the water flow rate. Originally a series of pipes and headwalls were considered but concerns over pipe blockages meant an alternative design was sought.

Concrete Cloth (CC) provided a solution that prevented erosion, suppressed weed growth and eliminated the maintenance issues associated with blocked pipes. CC enabled simple and cost effective cascades to be constructed using concrete bagwork, over which the cloth was easily laid. Due to the size of the drain the cloth was laid across the width allowing a 20m section. It was laid by a team of 3 workers in only 1 day.

OTHER CC APPLICATIONS

Other applications for CC include Roofing; Retaining Walls; Scour Protection; Blinding Layers; Shotcrete Replacement; Curb Repair; Weed Inhibiting; Basements Lining; Water Tanks; Flood Defences; Tunnel Lining.

**Concrete Cloth -
Reader Enquiry: 92**