

FormDirect™
In, on & around concrete

CONCRETE MAT CLOTH (GCCM)

GEOSYNTHETIC CEMENTIOUS COMPOSITE MAT

CONCRETE IMPREGNATED FABRIC



Big expertise. Real convenience. Concrete commitment.



WHAT IS CONCRETE MAT CLOTH GCCM ?

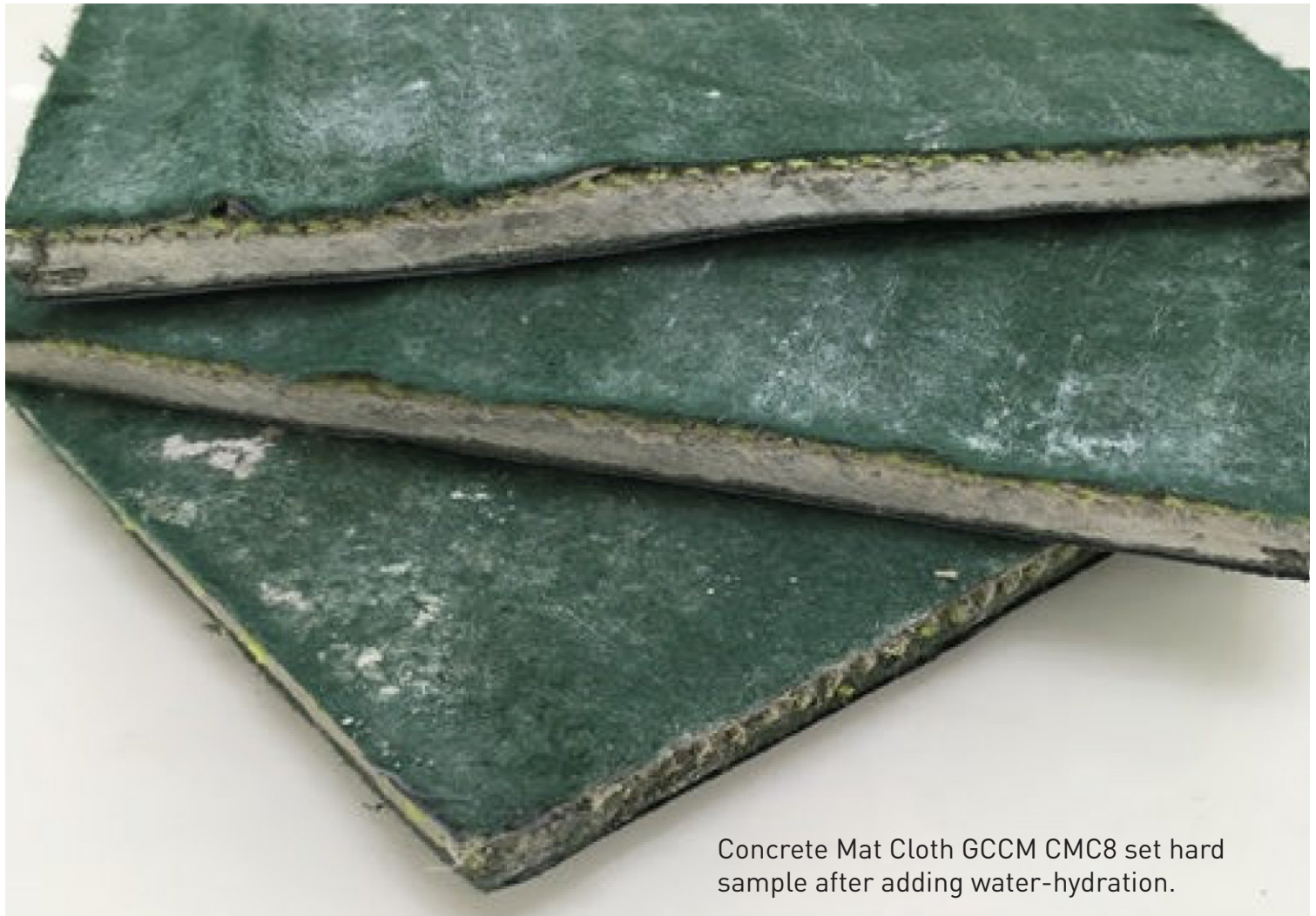
CMC GCCM is a flexible and soft cement impregnated fabric that hardens on hydration to form a thin durable waterproof and fire retardant concrete layer. Essentially, it's concrete on a roll.

CMC GCCM allows concrete construction without the need for plant or mixing equipment. It's very easy, just add water onto the CMC non-waterproof side.

CMC GCCM is made from woven geotextile, nonwoven geotextile, HDPE geomembrane, and 3D structure mesh fabric. The specially formulated dry concrete powder mix is reinforced by 3D mesh fabric, and sandwiched between porous nonwoven geotextile and waterproof HDPE geomembrane.

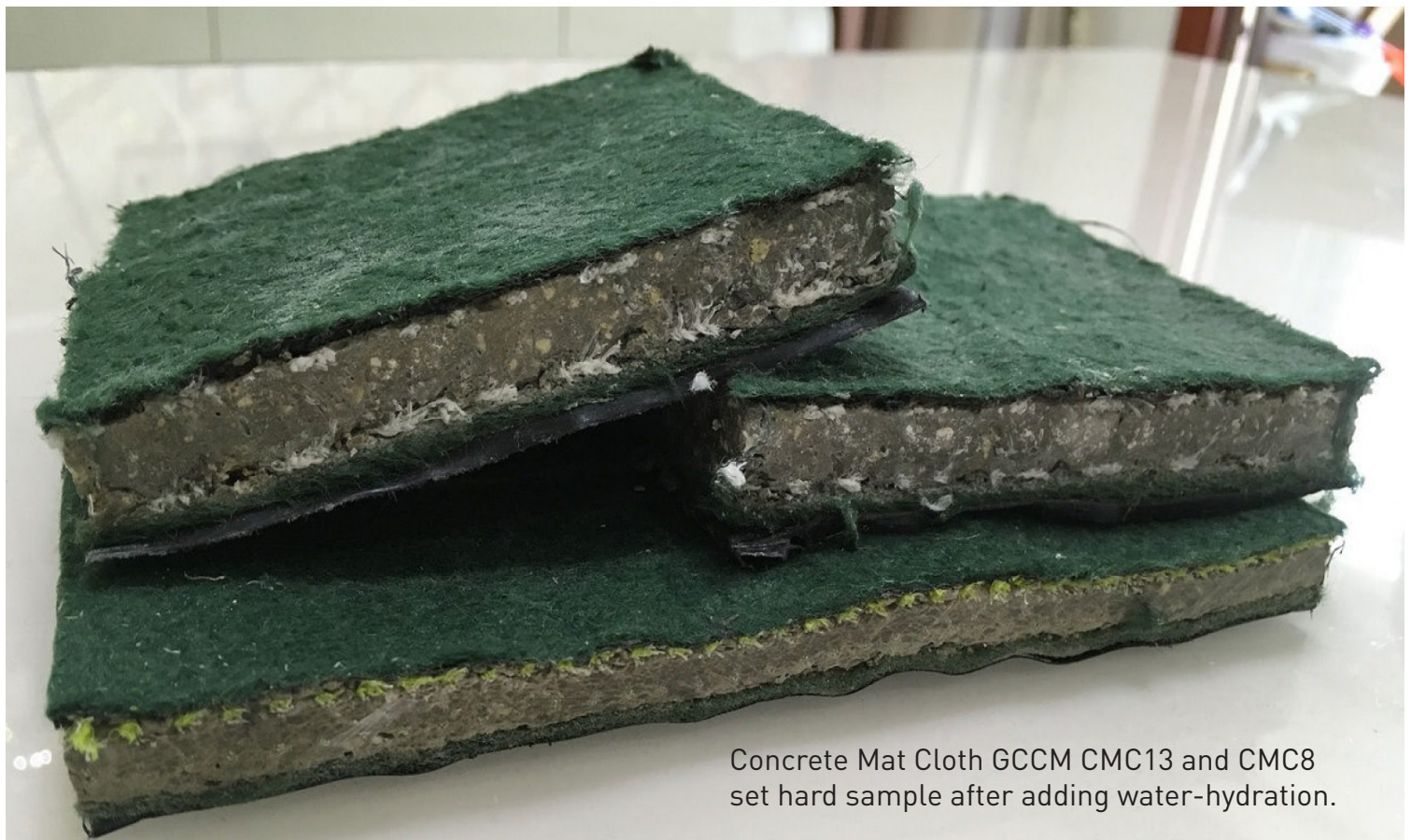
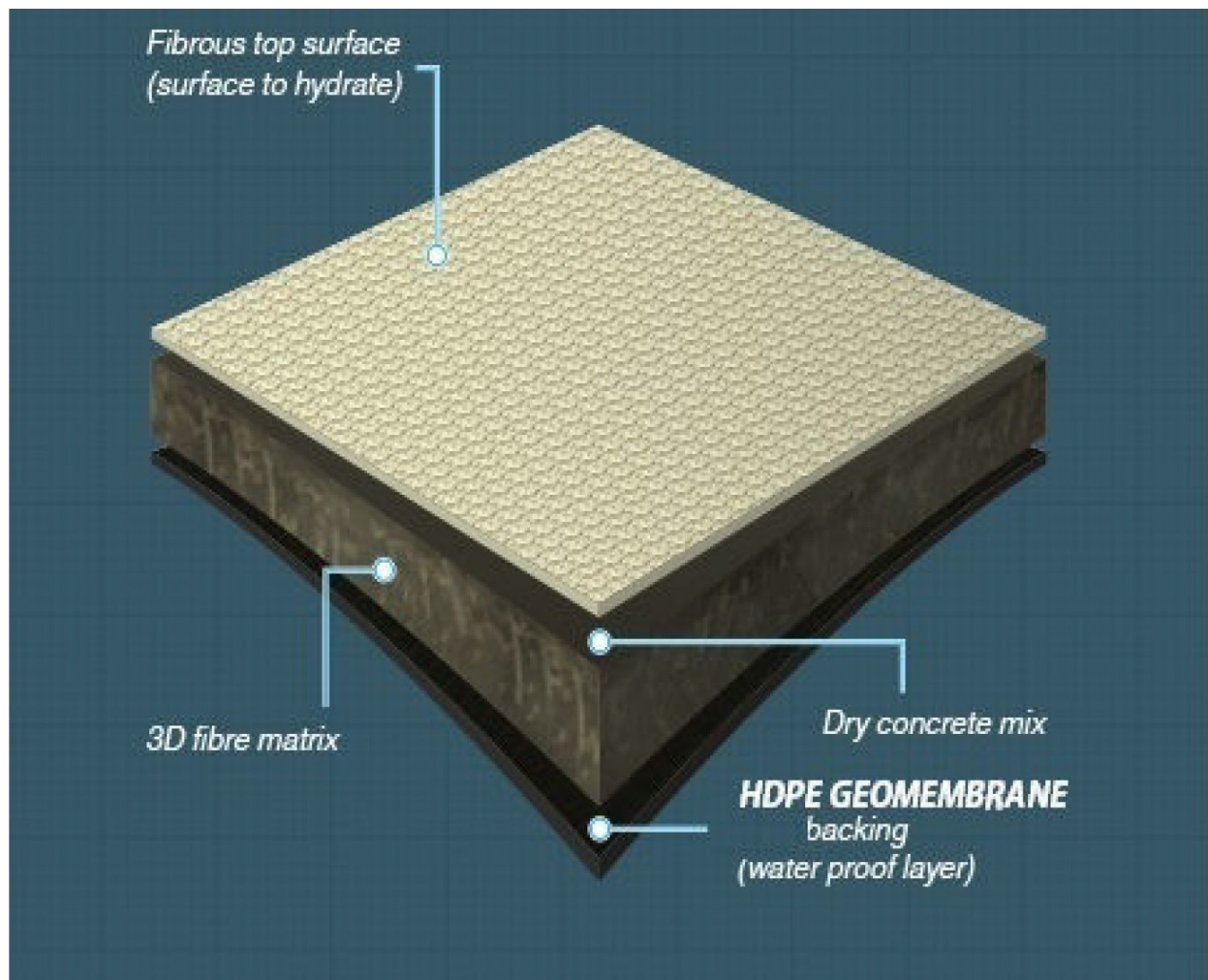
Once set, the 3D mesh fabric will reinforce the concrete, prevent crack propagation and provide a safe plastic failure mode. The woven and nonwoven geotextile on the top side will offer special protection on the CMC, and offer higher tensile strength for composite. HDPE geomembrane backing on the bottom surface of CMC ensures the material is completely waterproof.

CMC GCCM is available in 3 thicknesses - CMC5, CMC8 and CMC13, which are 5, 8 and 13mm thick respectively.



Concrete Mat Cloth GCCM CMC8 set hard sample after adding water-hydration.

CONCRETE MAT CLOTH GCCM PACKED IN ROLLS BEFORE ADDING WATER.



CONCRETE MAT CLOTH GCCM USER BENEFITS

RAPID INSTALL

CMC can be laid at a rate of 150m²/hours, up to 10 times faster than conventional concrete solutions.

EASY TO USE

CMC is available in man portable rolls for application with limited access such as 10m long. It's also very easy to cut with a knife. The concrete inside CMC is pre-mixed so there is no need for mixing or compacting.

LOWER PROJECT COST

The speed and ease of installation means that CMC GCCM is more cost-effective than conventional concrete with less logistical complexity.

ECO-FRIENDLY

CMC is a low mass, low carbon technology which uses up to 95% less material than conventional concrete for many applications. CMC is made from high strength geotextile and a special cement mixture. Its life expectancy can reach up to 30 years. What's more, it needs no maintenance.

CONCRETE MAT CLOTH GCCM KEY PROPERTIES

WATER PROOF

The HDPE Geomembrane backing on the bottom surface of the CMC ensures that the CMC GCCM has excellent impermeability.

STRONG-HIGH STRENGTH

The 3D mesh fabric reinforcement prevents CMC from cracking and absorbs energy from impacts.

DURABLE

CMC is twice as abrasion resistant as standard OPC Concrete, has an excellent chemical resistance, good weathering performance and will not degrade in UV.

FLEXIBLE AND SOFT

CMC GCCM has good drape characteristics and will closely follow the ground profile and fit around existing infrastructure. Unset CMC can be cut or tailored using basic hand tools.

SEALING EDGE

The cement powder inside of CMC will not come out from the edge because of the special sealing edge.



CONCRETE MAT CLOTH GCCCM PACKING



4 Rolls will be fixed on one pallet. 40 Rolls fill one 20 foot container.

CONCRETE MAT CLOTH GCCCM APPLICATIONS

Channel or Ditch lining

CMC GCCCM can be rapidly unrolled to form a ditch or channel lining. It's significantly faster, easier and less expensive to install than conventional concrete channel lining and requires less specialist plant equipment.



SLOPE PROTECTION

CMC GCCM can be used to protect slopes as a replacement for shotcrete and steel mesh. Its typically faster to install, more cost effective, requires less specialist plant equipment, and eliminate the risks associated with shotcrete rebound and debris.



BUND WALL LINING

CMC GCCM provides a cost effective alternative for lining secondary containment bunds. It acts as an effective weed suppressant reducing maintenance costs as well as providing additional levels of impermeability and fire protection. Its ability to be installed quickly reduces time on site whilst the availability of man-handleable rolls allows for installation in areas with reduced access.









CMC GCCM INSTALLATION GUIDE

Special installation guides are available. Any of the necessary accessories will be shipped together.

CMC GCCM STORAGE

CMC should be stored under cover in dry conditions away from direct sunlight and in the manufacturer's sealed packaging. It is not recommended to store in shipping containers in direct sunlight where temperatures may exceed 40°C for prolonged periods. If stored correctly CMC has a shelf life of 24 months. If stored for longer it may remain usable in many instances.

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