

CONCRETE CANVAS

Geosynthetics Cementitious Composite Mat



Concrete Canvas (Geosynthetic Cementitious Composite Mat, GCCM) is a flexible, formulated dry concrete mix and fiber impregnated mat that hardens and set on hydration to form a thin, strong, durable, waterproof and fire-resistant concrete layer. It is essentially concrete on a roll that can be applied to any surface, developed, patented and manufactured in UK.

Applications

- Slope protection
- Erosion control
- Channel drainage lining
- Concrete structure remediation
- Bund & culvert lining
- Submarine pipe protection
- Marine structure protection



Conservation Building at Kadoorie Farm



Laying of Concrete Canvas



Slope Protection at Kai Tak (KL/2012/02)



Drainage Channel Concrete Lining at SENT Landfill (EP/SP/10/91)

Benefits

- Fast and cost effective to install
- Requires no working space
- Requires no equipment (excellent for remote area)
- Needs little skills, like laying geotextile
- No regular maintenance

Properties

- Tested to ASTM D8364 type I, II & III
- Design life 120 years
- High compressive, flexural, puncture and abrasive strength
- Fire, chemical and abrasive resistant
- Biological, weather and root resistant
- CE marking, ETA & BBA certificate



Temporary Seawall Protection at TKO – Lam Tin Tunnel (NE/2015/02)



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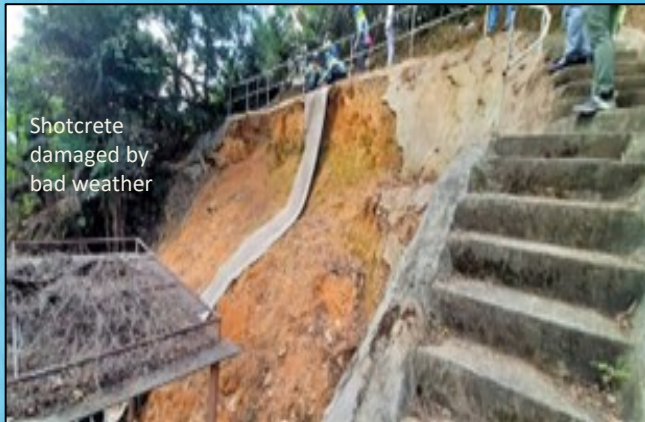
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Shotcrete damaged by bad weather



Concrete Canvas cover

Maintenance Works on Slopes in the Northern Regions, 3/LANDS/20, July 2022

Characteristics

- Flexible, conform to most profile
- High Manning value
- Perform well in wet condition and with sea water
- Low carbon, eco-friendly, low washout
- PVC waterproofing backing
- Non-hazardous
- Individual roll package, long shelf life



Batch Roll (1m W x 10m L)



Bulk Roll (1m W x 200m L)

The roll comes in 1 m width and is manually manageable. Bulk roll of 2 – 3 m width are available. Once unrolled, laid and secured, water can be sprayed to saturation and it will set in a 1 - 2 hours, hardened in 24 hours and will continue to gain strength up to 40 Mpa, typical concrete behavior and characteristics.

Physical Properties

Product	Nominal Thickness (mm)	Mass (unwet) (kg/m ²)	Batch Roll Size (m ²)	Bulk Roll Size (m ²)	Roll Width (m)
CCT1	5	8	10	170	1.0
CCT2	7	12	5	125	1.1
CCT3	11	19	NA	80	1.1

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