

GCCM[®]

Geosynthetic Cementitious Composite Mat



BURDENS AUSTRALIA

"It's Concrete In a Roll"



The Market Leader in GCCM'S

(Geosynthetic Cementitious Composite Mats)



- Supply and Install Available
- Wide Variety of Thicknesses
- 1-2.4m Wide Rolls Available
- Batched Rolls Available
- Less Jointing
- Largest Range of GCCM'S



GCCM

Geosynthetic Cementitious Composite Mat



Yarwun Refinery

WATER PROOF

DURABLE

STRONG

FLEXIBLE

DITCH LINING

GCCM'S can be rapidly unrolled to form a ditch or channel lining. It is significantly faster, easier and less expensive to install than conventional concrete ditch lining and requires no specialist equipment.

SLOPE PROTECTION

GCCM'S can be used to stabilise and protect slopes as a replacement for shotcrete and steel mesh. It is typically faster to install, more cost effective and eliminates the risks associated with shotcrete rebound and debris.

BUND LINING

GCCM'S provides a cost effective alternative for lining secondary containment binds. It acts as an effective weed suppressant, reducing maintenance costs as well as providing additional levels of impermeability and fire protection

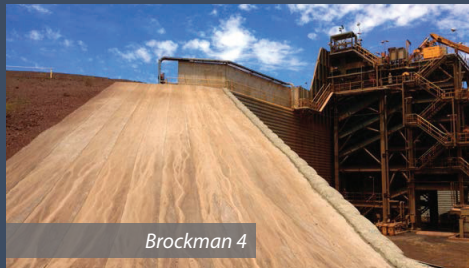
REMEDIATION

GCCM'S can be used to rapidly reline and refurbish existing concrete structures suffering from environmental degradation and cracking.

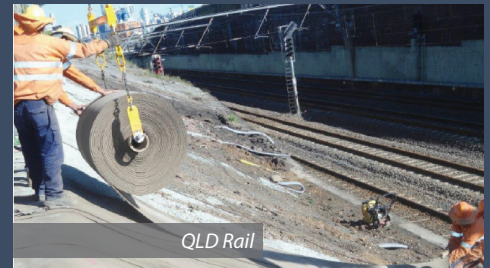
GCCM'S are a flexible, concrete impregnated fabric, that hardens when hydrated to form a thin, durable, waterproof and fire resistant concrete layer. Essentially it's concrete in a roll. GCCM allows concrete construction without the need for plant or mixing equipment: just add water.



Gorgon Project - Barrow Island



Brockman 4



QLD Rail

BBC

Inc.

abcNEWS



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Geosynthetic Cementitious Composite Mats



Wheatstone

Product: GCCM is a roll of concrete that hardens when hydrated in place (ASTM Geosynthetic Cementitious Composite Mat)

Superior Performance: Stronger, and faster to install than traditional concrete

Competitive: GCCM is less expensive than competitive products

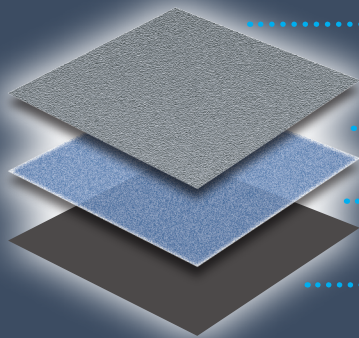
Eco Friendly: GCCM offers carbon savings of up to 90% when replacing traditional concrete



Compressive Strength
7,000psi (ASTM C-109)

Flextural Strength
1,500psi (ASTM C-947)

Punctual Resistance
1,500psi (ASTM D-4833)



Water Soluble Material

A bio-degradable fabric holds the cement in place during installation, allowing water to pass through, and eventually disintegrating.

Proprietary Cement Mix

Gels wet to lock the mix in place, sets quickly, and produces much stronger concrete than alternatives.

3D Reinforcement Matting

A framework of 3D matting holds the mix and then reinforces it after installation and watering.

Water-Proof Membrane

Provides 100% water-proofing, and inhibits chemicals from soil (eg. sulfate attack).

WATER

GCCM'S can be used in water management applications for ditch lining as well as ditches where medium to high water velocities and shear forces are expected.

AGRICULTURE

GCCM'S can be used to prevent erosion along the walls of ponds and reinforce them to create a permanent waterproof pond.

EROSION

Erosion control is necessary to protect structures (roads, railways, etc) from rain impact, runoff, and washout. GCCM'S provide long-term protection to prevent erosion.

REMEDIATION

GCCM'S can prevent the contamination of ground water, rivers and streams resulting from improper containment of toxic and hazardous waste, composting sites and landfills.

Bloomberg

Forbes

**LOS ANGELES
BUSINESS JOURNAL**



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Size Guide



Geelong Refinery

Thickness Selection Guide

Thickness	Ditch Lining	Slope Protection	Bund Lining	Concrete Remediation	Culvert Lining	Weed Suppression	Outfalls/ Spillways	Gabion Protection	Mining Vent	Scour Protection
GCCM5	✓									
GCCM8	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
GCCM10	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
GCCM13		✓								✓

Mackay Project



Wheatstone Project



Storage

- GCCM should be stored under cover in dry conditions away from direct sunlight and in 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 GCCM has a shelf life of 24 months. If stored for longer it may remain usable in many instances

*This brochure contains pictures of projects that Burdens Australia were involved in



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