

Tiltex Australia announces that Inferior Quality GCCM Cementitious Materials are being Promoted and Mislead to be 'Tiltex' Erosion Control Materials within the Australian Market

The erosion control market is changing with the introduction of an increased variety of GCCM's (Geosynthetic Cementitious Concrete Mat) entering the worldwide market.

With all product and market cycles, the changes invariably bring with them a variety of product types, materials, standards and large variances in quality. This variance in quality can lead to substandard quality product results when the incorrect GCCM is applied to an erosion control and containment solution when the product does not meet the standard required for the application.

The correct choice of GCCM is of utmost importance for the GCCM to stand the test of time in its environment. High quality product properties such as high strength, rapid setting cement mix with anti-cracking fibre enhancement, superior 80 MPa Compressive Strength and 13 – 16 MPa Flexural/Bending Strength mean that the customer has a product that will meet the GCCM qualities its claims to achieve.

Tiltex Australia has been conducting webinars in Australia and in the US and Canada with Tiltex North America to educate the customer on why a quality GCCM makes such a difference to the resulting performance of the product and application over time. A cheaper alternative means shorter life, poor performance and failure on the project site increasing costs overall and leading to legal action, environmental waste due to having to replace material too early in the product lifecycle.

Below is a table outlining
Tiltex Product Standard vs Generic Products from Unproven Manufacturers
available in the market today.

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Tiltex B Product Standard vs Generic GCCM Products from Unproven Manufacturers

GCCM PROPERTIES	TILTEX B PERFORMANCE	OTHER AVAILABLE GCCMS FROM UNPROVEN MANUFACTURERS	CONCERNS
Cement Quality	Trusted Accredited Suppliers with MQA Testing	Unknown standards Sometimes using recycled materials	Concrete Failure Poor Quality Cement
Compressive Strength	80MPa	40MPa	Poorer quality cured concrete
Flexural/Bending Strength	13.6-16MPa	3-6MPa	Less ability to handle differential settlement, hyper cold/warm cycle conditions. More cracking Greater Permeability
Roll Width	5 metre	1.1-5 metre	More overlaps, therefore more product wastage. Slower and Costly Installation
Anti-Cracking Fibre Enhancement	Yes Tiltex includes this in its 7B, 9B, & 12B range	No	Cracking and weakness in physical properties.
Independent Third-Party Testing for compressive , bending strength, curing times and wear abrasion testing.	Yes Full independent Third-Party Testing reports are available	No Not always available & No Independent Material Testing	Questionable quality if claimed benefits cannot be proven
Warranty	50-year design life 30-year warranty	No Not always available	No guarantee of performance
ASTM Standard	Surpasses ASTM Standard	Not known	Poorer Quality Product

A High Quality GCCM with Uniform Sand and Cement Mix with Anti Cracking Fibres.



Examples of Poor Quality GCCM's

