



Cem-MAT®

Continuous Reinforcement

Cem-MAT is part of the Cem-FIL® product range

PRODUCT DESCRIPTION

Cem-MAT® is an engineered Alkali Resistant system available in a standard nominal weight of 120 g/m² and different widths. It is produced by chopping a Cem-FIL® AR-Roving and forming into a mat with a suitable binder, which dissolves with water and assists incorporation into a cement matrix. The mat has an open construction to allow penetration of cement mortar.



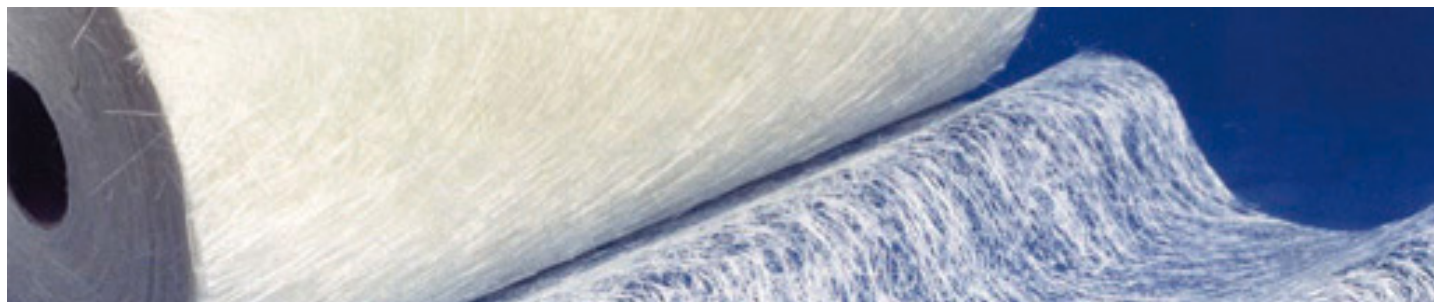
PRODUCT APPLICATION

Cem-MAT® is designed for use in the reinforcement of very thin layers (5 to 25 mm), to reinforce precast elements or screeds and around posts where stress is concentrated. It may be used with regular self leveling mortars or with optimized mixes.

AR fibers have a high elastic modulus and tensile strength making them ideal as an effective reinforcement for cement matrices. It will not rot or corrode, and is unaffected by UV radiation, making it suitable for use with minimal cover

ADVANTAGES AND BENEFITS

- Allows thinner layers of concrete (5 to 25) mm
- Control of short and long-term cracking in the concrete
- Fast use: one step placement
- Does not corrode
- Very easy incorporation into the matrix
- Safe and easy to handle



FEATURES (nominal values)

Fiber Diameter	Nominal weight	Nominal roll length	Nominal roll width	Edge condition	Strand lengths
14 µm / 0.000546"	120 g/m ² / 0.39 oz/ft ²	100 m / 328 ft	60 , 90, 105, 120 cm / 23.6, 35.4, 47.2"	1 cut edge	~ 75 mm / ~1.97"

- Binder dissolves in contact with water
- Specific Gravity: 2.68 g/cm³
- Material: Alkali Resistant Glass*
- Softening point: 860°C • 1580°F
- Electrical Conductivity: Very low
- Chemical Resistance: Very high
- Modulus of elasticity: 72 GPa • 10 x 10⁶ psi
- Tensile Strength: 1,700 MPa • 250 x 10³ psi

* Our fibers are manufactured with high Zirconium content in compliance with ASTM C1666/C 1666/M-07 and EN 15422 and under the recommendations of PCI and GRCA

Cem-MAT® *

Continuous Reinforcement

* Cem-MAT is part of the Cem-FIL® product range

HOW TO USE

Only one layer **Cem-MAT®** has to be placed on the floors before pouring the mortar.
Overlapping of at least 5 cm is necessary.
Use a roller to make the mat perfectly impregnated.

PACKAGING and STORAGE

Cem-MAT® rolls are supplied in a 109 mm (4.25 in.) diameter cardboard tube protected by a polyethylene bag.
A pallet is made up of 16 rolls placed vertically on a wooden base pallet with an external cardboard (1200 x 1200 x h mm).

Cem-MAT® should be stored away from heat and moisture, and in their original packaging. The best conditions are:

- Temperature: 15°C – 35°C.
- Humidity: 35% – 65%.

If the product is stored at lower temperatures it is advisable to condition it in the workshop for at least 24 hours before use, to prevent condensation.

QUALITY STANDARDS – CERTIFICATION

- Cem-FIL® fiber is manufactured under a quality Management System approved to ISO 9001. Additionally, the actual performance of Cem-FIL® fibers is subject to independent assessment and approval in Germany (Zulassung N° Z-3.72.1731).
- Cem-FIL® fibers meet safety standards according to European Directive 99/45/EC, 67/548/EEC and their latest amendment.

Cem-FIL® Customer Service

Alcala de Henares, Spain
Tel. : + 34.91 885 58 03
Fax : + 34.91 885 58 34
Cem-fil@owenscorning.com

WWW.CEM-FIL.COM



OCV™ Reinforcements

**OWENS CORNING
COMPOSITE MATERIALS, LLC**
ONE OWENS CORNING PARKWAY
TOLEDO, OHIO 43659
1.800.GET.PINK™
www.owenscorning.com
www.ocvreinforcements.com

**EUROPEAN OWENS CORNING
FIBERGLAS, SPRL.**
166, CHAUSSÉE DE LA HULPE
B-1170 BRUSSELS
BELGIUM
+32.2.674.82.11

OWENS CORNING – OCV ASIA PACIFIC
SHANGHAI REGIONAL HEADQUARTERS.
2F OLIVE LVO. MANSION
620 HUA SHAN ROAD
SHANGHAI 200040
CHINA
86.21.62489922

The information and data contained herein is offered solely as a guide in the selection of a reinforcement. The information contained in this publication is based on actual laboratory data and field test experience. We believe this information to be reliable, but do not guarantee its applicability to the user's process or assume any responsibility or liability arising out of its use or performance. The user agrees to be responsible for thoroughly testing any application to determine its suitability before committing to production. It is important for the user to determine the properties of its own commercial compounds when using this or any other reinforcement. Because of numerous factors affecting results, we make no warranty of any kind, express or implied, including those of merchantability and fitness for a particular purpose. Statements in this publication shall not be construed as representations or warranties or as inducements to infringe any patent or violate any law safety code or insurance regulation.

Pub. No. 10011112-D. Owens Corning reserves the right to modify this document without prior notice. ©2010 Owens Corning

CemFIL_CemMat_ww_12_2010_Rev6_EN