



# Cem-MAT®

### PRODUCT DESCRIPTION

**Cem-MAT®** is an engineered Alkali Resistant system available in a standard nominal weight of 120 g/m<sup>2</sup> and different widths. It is produced by chopping a Cem-FIL® AR-Roving with 38 tex into 50 mm-strands 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 by cement mortar.



### PRODUCT APPLICATION

**Cem-MAT®** is designed for use in the reinforcement of very thin layers (5 to 25 mm). It may be added to conventional mixes on site; mix-designs such as self-levelling compounds, during industrial processes or during manual process.

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



### FEATURES AND PRODUCT BENEFITS

- Alkali resistant glass\*
- Dissolving of the binder in contact with water
- Very easy incorporation into the matrix
- Fast use: one step layout
- Control of short and long-term cracking in the concrete
- Crack free thin layers : 5 to 25 mm.
- Safe and easy to handle

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

### TECHNICAL CHARACTERISTICS (nominal values)

Fibre Diameter	Nominal weight	Nominal roll length	Nominal roll width	Edge condition	Strand lengths
14 (µm)	120 standard (g/m <sup>2</sup> )	100 (m)	60 , 90, 120 (cm)	1 cut edge	~ 50 (mm)
0.000546 (in)	0.39 (oz/ft <sup>2</sup> )	328 (ft)	23.6, 35.4, 47.2 (in)	1 cut edge	~1.97 (in)

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**Cem-MAT®** Rolls are supplied in a 77 mm (3 in.) diameter cardboard tube x 82 mm high, and protected by a polyethylene bag. A pallet is made up of 15 such cartons placed vertically on a wooden base pallet (1150 x 1150 x h mm).

## STORAGE

**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.

OCV™ Reinforcements recommends using the material according to FIFO (first in, first out) method.

## QUALITY

**Cem-MAT** rolls are manufactured under a quality Management System approved to ISO 9001. Additionally the actual performance of Cem-fil roving which is used to produce the Cem-MAT is subject to independent assessment and approval in Germany (Zulassung n° Z-3.72.1731).

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