



CEM-MAT™ FOR THIN HIGH- PERFORMANCE SURFACES

Cem-MAT™ is an engineered alkali-resistant system, produced by chopping ETA-approved Cem-FIL® AR-glass roving and forming it into a mat with a water-soluble binder for easy incorporation into a fine cement-based matrix. It is available in a standard nominal weight of 120 g/m² and different widths.

- Use with regular self-leveling mortars or with optimized mixes.
- Features an open construction to allow penetration of cement mortar through the mat.

FOR CONTINUOUS CONCRETE REINFORCEMENT

Product Benefits



Crack Control

- Mitigation of short- and long-term cracking in the concrete



Tougher

- Alkali-resistant glass*
- High elastic modulus and tensile strength
- No corrosion, rust, or staining



EASY TO USE

- One-step placement
- Fast and uniform dispersion
- Very good impregnation in the mortar (especially in Topscreed applications where a spiked roller is recommended)
- Safe and easy to handle

Applications

Cem-MAT™ is especially designed for use in the reinforcement of very thin layers (5 to 25 mm) for precast concrete elements or screeds, at corners, and around posts where stress is concentrated, making it ideal as an effective reinforcement for cement applications with minimal cover.



Technical Characteristics (Nominal Values)

GLASS INPUT TEX/LENGTH (ISO 1888:2006)	NOMINAL WEIGHT	TOTAL BINDER CONTENT LOI (ISO 1887)	NOMINAL ROLL WIDTH	NOMINAL ROLL LENGTH	EDGE CONDITION
38 Tex/51 mm - 2.0"	120 g/m ² 0.39 oz/ft ²	6.5%+/-2%	900 mm/35.4"	100 m/328 ft	2 cut edges
			1050 mm/41.3"	100 m/328 ft	

- **Electrical Conductivity:** very low
- **Chemical Resistance:** very high
- **Specific Gravity:** 2.68 g/cm³
- **Modulus of elasticity:** 72 GPa 10x10⁶
- **Tensile Strength of Input:** 1,000 to 1,700 MPa – 145 to 250 x 10³ psi
- **Solubility in Water:** 2 min, 30 sec according to internal method

* 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.

Dosage

Only one layer of Cem-MAT™ is required on the floors before pouring the mortar. A small overlapping is necessary. Use a roller to fully impregnate the mat.

Packaging & Storage

Cem-MAT™ rolls are supplied in a 76.2/85.3 mm (3.00/3.36 in) inner/external diameter cardboard tube protected by a polyethylene bag. Cardboard tube weighs approximately 0.800 kg (1.75 lbs.). A pallet is made up of 36 rolls placed vertically on a wooden base pallet with an external cardboard (1140 x 1140 mm).

Cem- MAT™ rolls should be stored away from heat and moisture, and in their original packaging. Optimum conditions are temperatures between 15°C and 35°C, and humidity between 35% and 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-MAT™ input rovings are manufactured under a quality management system approved to ISO 9001 and comply with ETA 17/0169.

Cem-MAT™ is not classified as dangerous by the Regulation 1272/2008/EC. For more information, please refer to our Safe Use Instruction Sheet.

Verified Environmental Product Declaration according to ISO 14025 and EN 15804:2019 available upon request.



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