

Cem-FIL* fibres are manufactured from a specially formulated glass composition which exhibits a high degree of resistance to acids and alkalis, but was specifically developed to enable these fibres to resist the very high alkalinity produced by the hydration of Ordinary Portland Cement.

Cem-FIL fibres have a high Elastic Modulus and Tensile Strength making them ideal as an effective reinforcement for cement/concrete matrices. They will not rot or corrode, and are unaffected by UV radiation, making them suitable for use with minimal cover.

Cem-Mat™ 120/1 has a nominal weight of 120 g/m² and is produced by chopping Cem-FIL rovings into strands and forming into a mat with a suitable binder. The mat has an open construction to permit penetration by cement mortar. Incorporation into a cement matrix is further assisted by the use of a specially-developed binder.

Cem-FIL Mat may be used as a positioned reinforcement in sheet or precast products, in machine or manual processes, and in flooring.

Technical characteristics (nominal values)

| Type of glass | Filament Ø (µ) | Nominal weight (g/m ²) | Nominal roll length (m) | Nominal roll width (m) | Edge condition | Strand (tex) | Strand length (mm) |
|----------------------------|----------------|------------------------------------|-------------------------|------------------------|-----------------------------|--------------|--------------------|
| Cem-FIL (Alkali Resistant) | 14 (±2) | 120 | 100 or 280 | 60,90,180 available | 0,1 or 2 cut edges possible | 38 | Minimum 50 |

Properties

- indust. strand tensile strength :1,700 MPa
- elastic modulus :72,000 MPa
- specific gravity : 2.68
- strain at breaking point : 2.4 %
- water uptake : < 0.1 %
- softening temperature : 860 ° C



Floors

Packaging - Labelling

Rolls of Cem-Mat™ 120/1 are supplied on a 77 mm (3 inch) diameter cardboard tube, and protected by a polyethylene bag. Rolls are packed vertically in a cardboard carton 37 x 37 x 133 cm (one or two rolls according to width). A pallet is made up of 9 such cartons placed vertically on a wooden base pallet.

- Each carton has a self-adhesive label indicating the product reference, individual roll net weight and nominal length. Each pallet will have two labels on two perpendicular sides, indicating the product reference, total net weight and gross weight.
- *Non-standard sizes*
Requests for special roll widths (up to 150 cm) and roll lengths (minimum 50 m) will be considered subject to a minimum order quantity and possible extended delivery time.
- *Country of origin :*
All Cem-FIL Rovings are manufactured in Spain by Saint-Gobain Vetrotex España SA.
Cem-Mat 120/1 is produced in France by Saint-Gobain Lorcet SA, a specialist production unit of Saint-Gobain Vetrotex France.

* Registered trademark

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