

CEM-FIL® 70

AR-GLASS CHOPPED STRANDS FOR RENDERING MORTARS



DESCRIPTION

- **Cem-FIL® 70** is a special purpose AR-glass fiber chopped strand designed for mixing with cement and other materials where a high degree of dispersion of the fibers is needed

BENEFITS

- Excellent workability
- Control and prevention of cracking in fresh concrete
- Improves the thixotropy of the mortar, making it easy to apply
- High dispersion: 100 million of filament per kg in fiber length 12 mm
- Safe and easy to handle
- Virtually invisible on the finished surface

APPLICATIONS

- **Cem-FIL® 70** product is typically used in the modification of specialist mortars and industrialized processes
- **Cem-FIL® 70** product chopped strands have a sizing system which is water dispersible, allowing full dispersion into individual filaments when mixing in an aqueous environment. It is mainly used in renders and mortars



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TECHNICAL CHARACTERISTICS

Fiber length	Filament Diameter (ISO 1888 : 2006)	Loss on Ignition (%) (ISO 1887 : 1995)	Moisture (%) (ISO 3344 : 1997)
3 – 6 – 9 – 12 mm / $\frac{1}{8}$ " – $\frac{1}{4}$ " – $\frac{3}{8}$ " – $\frac{1}{2}$ " inches	20 μ m / 0.00078"	0.60	0.50 max.

- Electrical Conductivity: Very low
- Specific Gravity: 2.68 g/cm³
- Material: Alkali Resistant Glass*
- Softening point: 860°C – 1580°F
- Chemical Resistance: Very high
- Modulus of elasticity: 72 GPa – 10 x 10⁶ psi
- Tensile Strength: 1000–1700 MPa – 145–250 x 10³ psi

* Our fibers 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

DOSAGE

Recommended dosage is in between 0.02 to 0.2%, or 0.5 to 5 kg/m³ (0.8 – 8 lb/cu.yd). Fibers can be blended and bagged with dry mortar ingredients, or introduced directly to the mixer at the facility or job site.

PACKAGING AND STORAGE

Cem-FIL® 70 chopped strands are packed in individual plastic bags (18 kg). Cem-FIL® 70 chopped strands should be stored away from heat and moisture, and in their original packaging. Optimum conditions are temperature 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-FIL® 70 fibers are manufactured under a quality Management System approved to ISO 9001.

Cem-FIL® fibers are not classified as dangerous by the Regulation 1272/2008/EC. For more information, please refer to our Safe Use Instructions Sheet.

For further info please send a email to: cem-fil@owenscorning.com / www.cem-fil.com

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