



# Cem-FIL<sup>®</sup> 70

## AR Chopped Strands for Rendering Mortars

### PRODUCT DESCRIPTION

**Cem-FIL<sup>®</sup> 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.



### PRODUCT APPLICATION

**Cem-FIL<sup>®</sup> 70** is typically used in the modification of specialist mortars and industrialized processes.

**Cem-FIL<sup>®</sup> 70** 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..

### ADVANTAGES AND 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 filaments per Kg in fiber length 12 mm
- Safe and easy to handle
- Virtually invisible on the finished surface



### FEATURES (nominal values)

Fiber length	Filament Diameter (ISO 1888:2006)	Loss on Ignition (%) (ISO 1887 : 1995)	Moisture (%) (ISO 3344 : 1997)
3 - 6 mm / 1/8" - 1/4" inchs	20 µm / 0.00078"	0.70	0.50 max
9 – 12mm 3/8" - 1/2" inchs		0.55	

- Electrical Conductivity: Very low
- Specific Gravity: 2.68 g/cm<sup>3</sup>
- Material: Alkali Resistant Glass\*
- Softening point: 860°C • 1580°F
- Chemical Resistance: Very high
- Modulus of elasticity: 72 GPa • 10x10<sup>6</sup> psi
- Tensile Strength: 1,700 MPa • 250 x 10<sup>3</sup> 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

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### HOW TO USE – DOSAGES

Recommended dosage is between 0.02 to 0.2%, or 0.5 to 5 kg/m<sup>3</sup> (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.

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### PACKAGING and STORAGE

Cem-FIL<sup>®</sup> 70 chopped strands are packed in individual plastic bags (18 Kg).

Cem-FIL<sup>®</sup> 70 chopped strands 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.

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### QUALITY STANDARDS – CERTIFICATION

- Cem-FIL<sup>®</sup> 70 fibers are manufactured under a quality Management System approved to ISO 9001.
- Cem-FIL<sup>®</sup> fibers are not classified as dangerous by the Regulation 1272/2008/EC. For more information, please refer to our Safe Use Instructions Sheet.

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Cem-FIL<sup>®</sup>, Anti-CRAK<sup>®</sup> and Slurry-FIL<sup>®</sup> are Owens Corning brands of Alkali Resistant glass fiber reinforcements. A strategic alliance was established between Owens Corning and Taishan Fiberglass, to manufacture specialty glass products in China. With strong technical support from Owens Corning global Research and Development centers, Cem-FIL<sup>®</sup>, Anti-CRAK<sup>®</sup> and Slurry-FIL<sup>®</sup> AR glass fiber reinforcements are jointly developed, manufactured and delivered to global market.