



INNOVATIONS FOR LIVING™

PRODUCT DATA SHEET



Cem-FIL® 60

AR Chopped Strands for Repair Mortars and Premix GRC

PRODUCT DESCRIPTION

Cem-FIL® 60 is a high integrity AR glass fibre chopped strand designed for premixing with other materials and the resulting mix is formed by vibration casting or other processes into molded GRC components. It can also be used as a component of repair mortars to enhance their performance.



PRODUCT APPLICATION

The high integrity of the product makes it suitable for use in a variety of production processes including vibration-casting, pumping, spraying, or dry-blending with other materials.

Cem-FIL® 60 chopped strands are designed for ease of incorporation even at high dosage and remain integral during mixing. It is used in the manufacture of repair mortars, standard GRC components such as drainage channels or meter boxes, or in architectural applications such as decorative screen walling and ornate moldings.

Cem-FIL® 60's hydrophobic behavior makes the mix more fluid and that ensures better compaction and easier release of trapped air.

ADVANTAGES AND BENEFITS

- High integrity during mixing
- Low tex strand
- Easy incorporation
- High performance with low dosage
- Excellent reproduction of detail
- Good level of workability
- Reduced water demand compared to other fibers
- Improves mechanical performance of GRC elements
- Makes highly durable GRC elements
- Safe and easy to handle



FEATURES (nominal values)

Fiber length	Filament Diameter	Tex (g/km)	Loss on Ignition (%) (ISO 1887 : 1995)	Moisture (%) (ISO 3344 : 1997)
6 – 12 mm / ¼" - ½"	14 µm / 0.000546"	45	0.80	0.50 max
6 - 12 - 18 (mm) / ¼" - ½" - ¾"		82	0.85	
6 – 9 - 12 - 18 (mm) / ¼" - 1/3" - ½" - ¾"	18 µm / 0.0007"	135	0.85	

- 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 • 10x10⁶ psi
- Tensile Strength: 1,700 MPa • 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

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HOW TO USE – DOSAGES

For repair mortars, recommended dosage is in between 1 to 2%, or 25 to 50 kg/m³ (42 – 84 lb/cu.yd).
For Premix GRC, recommended dosage is from 2.5 to 3.5% by weight.

PACKAGING and STORAGE

Cem-FIL® 60 chopped strands are packed in individual plastic bags (6 - 18 Kg).

Cem-FIL® 60 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.

QUALITY STANDARDS – CERTIFICATION

- **Cem-FIL® 60** fibers are manufactured under a quality Management System approved to ISO 9001.
- **Cem-FIL® 60** fibers fulfil all the prescribed requirements described in the European Technical Approval ETA-11/0410, attested by the EC-Certificate of conformity 0672-CPD-I 13.15.5. So the CE marking is affixed on the packaging of **Cem-FIL® 60** fibers and on the accompanying commercial documents
- **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.

Cem-FIL® Customers Service

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