



# Cem-FIL® 60

## Cem-FIL® 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 moulded 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 mouldings.

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



### ADVANTAGES AND BENEFITS

- |                                    |   |
|------------------------------------|---|
| • High integrity during mixing     | • High level of workability                       |
| • Low tex strand                   | • Reduce water demand compare to other fibers     |
| • Easy incorporation               | • Improves mechanical performance of GRC elements |
| • High performance with low dosage | • Safe and easy to handle                         |

### TECHNICAL CHARACTERISTICS (nominal values)

FIBER LENGTH	FIBER DIAMETER	Tex (g/km)
6 – 12 mm / ¼” – ½”	14 (µm) 0.000546”	45
6 – 12 – 18 (mm) / ¼” – ½” – ¾”		82
6 – 9 - 12 – 18 (mm) / ¼” – ⅓” – ½” – ¾”	18 µm / 0.0007”	135

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## Cem-FIL® Chopped Strands for Repair Mortars and Premix GRC

• Filaments diameter: 14 µm, (0,000576")	• Alkali Resistant Glass*
• Specific Gravity: 2.68 g/cm <sup>3</sup>	• Softening point: 860 °C • 1580 °F
• Size Content : 0,8% (ISO 1980 : 1980)	• Electrical Conductivity: Very low
• Moisture: 0,3% max (ISO 3344 : 1977)	• Resistance to chemical aggressions: Very high
	• Modulus of elasticity: 72 GPa • 10 x 106 psi

\*Our fibres 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

### HOW TO USE – DOSAGES

For repair mortars, recommended dosage is in between 1 to 2%, or 25 to 50 kg/m<sup>3</sup> (42 – 84 lb/cu.yd).

For Premix GRC, recommended dosage is from 3 to 4% by weight.

### PACKAGING AND STORAGE

**Cem-FIL® 60** chopped strands are packed in individual plastic bags (6 - 13 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® fibers** are manufactured under a quality Management System approved to ISO 9001.

Additionally the actual performance of **Cem-FIL® fibers** are subject to independent assessment and approval in Germany (Zulassung N° Z-3.72.1731).

**Cem-FIL® fibers** meets safety standards according to European Directive 99/45/EC, 67/548/EEC and their latest amendment.

#### Cem-FIL® Customers Service

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