

CEM-FIL® 60

High integrity
during mixing



Cem-FIL® 60 is a high-integrity chopped-strand glass fiber for use in molded GRC components or in repair mortars to enhance their performance.

✓ Produced with Cem-FIL® AR-glass, an alkali-resistant glass specifically designed for concrete reinforcement and lives up to a 50-plus-year reputation.

✓ Designed for premixing with other materials where the final mix is formed by vibration casting or other processes.

✓ Incorporates easily (even at high dosage) and remains integral during mixing.

FOR PREMIX GRC AND REPAIR MORTAR APPLICATIONS

Product Benefits



Performance

- Alkali-Resistant glass*
- Excellent mechanical performance
- Makes highly durable GRC elements
- High performance with low dosage



Processing

- High integrity during mixing
- Reduced water demand compared to other fibers
- Safe and easy to handle
- Good level of workability
- Very easy incorporation into the matrix



Aesthetics

- Ideal for use with complicated profiles
- Excellent reproduction of details

Application

Cem-FIL® 60 is used in a variety of production processes, including vibration-casting, pumping, spraying, or dry-blending with other materials. It is used in the manufacture of repair mortars, industrial GRC boards, standard GRC components, such as drainage channels or meter boxes, or in architectural applications, such as decorative screen walling and ornate moldings.



Photo Credit: KLM Architekten und Ingenieure GmbH

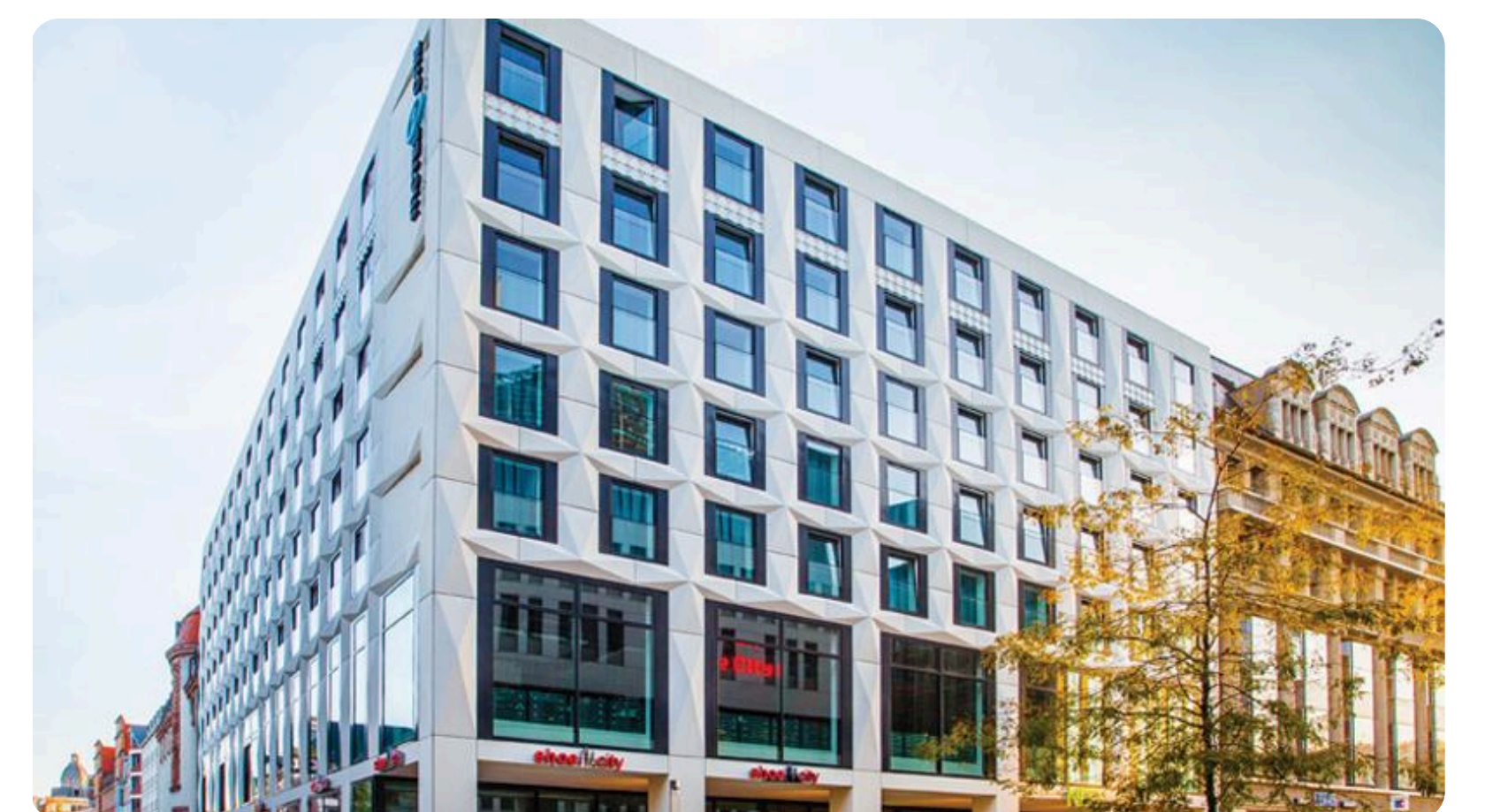


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Technical Characteristics

FIBER LENGTH	FILAMENT DIAMETER	TEX (g/km)	LOSS ON IGNITION (%) (ISO 1887:1995)	MOISTURE (%) (ISO 3344:1997)
6–12–18 (mm)/¼"–½"–¾"	14 µm/0.000546"	82	0.90 (6–12 mm) 0.95 (18 mm)	0.50 max
12–18–24 (mm)/½"–¾"–1"	18 µm/0.0007"	135	0.95	

- Electrical Conductivity: Very low
 - Specific Gravity: 2.68 g/cm³
 - Material: Alkali-Resistant Glass*
 - Softening Point: 860°C – 1 580°F
- Chemical Resistance: Very high
 - Modulus of Elasticity: 72 GPa – 10x10⁶ psi
 - Tensile Strength: 1 000+ MPa — 145+ ksi

*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

For repair mortars, recommended dosage is in between 1 and 2%, or about 25 to 50 kg/m³ (42–84 lb/yd³). For Premix GRC, recommended dosage is from 2.5% to 3.5% by weight.

Packaging & 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. Optimum conditions are temperatures 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

- Cem-FIL® 60 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 Instruction Sheet.
- CE marking and Declaration of Performance as fibers for use in concrete and mortar through European Technical Assessment ETA 17/0169.
- Verified Environmental Product Declaration according to ISO 14025 and EN 15804:2019 available upon request.

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MORE
POSSIBLE™

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