Original Composites & Fiberglass

CEM-FIL® 61

Durability and aesthetics

MICROPLASTICS-FREE

Cem-FIL® 61 is an alkali-resistant glass fiber assembled roving specifically designed for use in the manufacture of glass fiber reinforced concrete (GRC) composites using the premix method, simultaneous spray method, or other industrial chopping processes.

- Incorporates easily and provides uniform performance for excellent finish and quality reproduction of detail throughout the form.
- Excellent durability with good mechanical properties.
- Tested and approved for use with commonly used spray equipment.

FOR GLASS FIBER REINFORCED CONCRETE COMPOSITES

Product Benefits

Performance

- Alkali-resistant glass
- Excellent mechanical performance
- Makes highly durable GRC elements

Processing

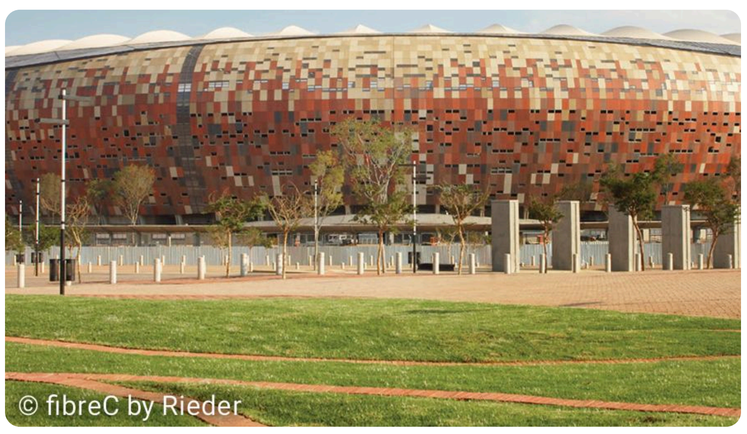
- Excellent unwinding
- Easy chopping
- High split-efficiency
- Safe and easy to handle
- Very easy incorporation into the matrix

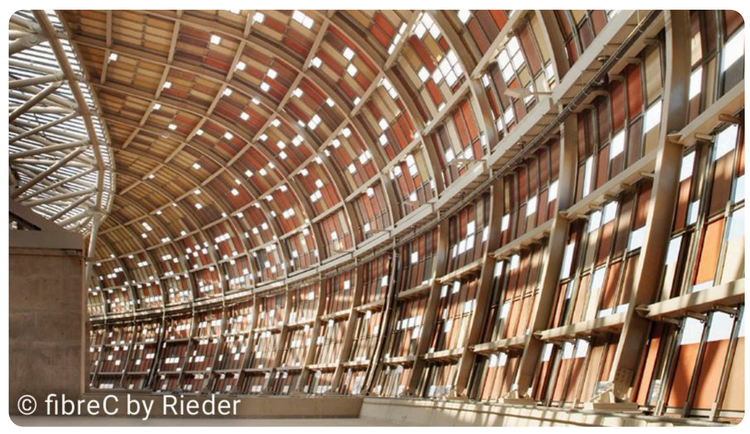
Aesthetics

- Excellent reproduction of details
- Crack control in architectural elements

Application

Cem-FIL® 61 is used in a variety of GRC spray roving applications where durability, reproduction of details, and complicated profiles are used, including architectural facades and manufactured concrete products.





CEM-FIL® 61 | GLASS FIBER REINFORCED CONCRETE | JULY 2026

Technical Characteristics

LINEAR DENSITY OF ROVING (TEX) (ISO 1889:2009)	LINEAR DENSITY OF STRAND (TEX) (ISO 1889:2009)	LOSS ON IGNITION (%) (ISO 1887:1995)	MOISTURE (%) (ISO 3344:1997)
2500 and 4800	82 and 100	1.75	0.50 max

- Electrical Conductivity: Very low
- Specific Gravity: 2.68 g/cm^3
- Material: Alkali-Resistant Glass*
- Softening Point: 860ºC/1 580ºF
- Chemical Resistance: Very high
- Modulus of Elasticity: 72 GPa – 10x10^6 psi
- Tensile Strength of Input: >1 000 MPa–>145 x 10^3 psi

*Our fibers are manufactured with high zirconia content in compliance with ASTM C1666/C1666/M-07 and EN 15422, and under the recommendations of PCI and GRCA.

Dosage

Cem-FIL® 61 rovings are used in GRC manufacturing processes with purpose-made GRC equipment. The recommended dosage in sprayed GRC is 5% by weight. The recommended dosage in premix GRC is 3% by weight.

Packaging & Storage

Cem-FIL® 61 rovings are protected by a shrink-wrap polythene film, open at the top, which should not be removed when the product is in use. Rovings are packed on pallets, either with or without carton boxes. Cem-FIL® 61 rovings 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® 61 fibers are manufactured under a quality management system approved to ISO 9001
- Cem-FIL® 61 fibers are not classified as dangerous by the Regulation 1272/2008/EC. For more information, please refer to our Safe Use Instruction Sheet.
- Verified Environmental Product Declaration according to ISO 14025 and EN 15804:2019 available upon request.
- CE marking and Declaration of Performance as fibers for use in concrete and mortar through European Technical Assessment ETA17/0169.

MAKE MORE POSSIBLE™

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