



Cem-FIL® 61 GRC Premix and Spray Roving

PRODUCT DESCRIPTION

Cem-FIL® 61 is an Alkali Resistant glass fiber assembled roving designed for use in the manufacture of glass fiber reinforced concrete (GRC) composites by both premix and simultaneous spray methods.



PRODUCT APPLICATION

In the premix process, Cem-FIL® 61 is chopped into small strands with high abrasion resistance. The fiber remains integral and this provides easy incorporation into the matrices and efficient workability.

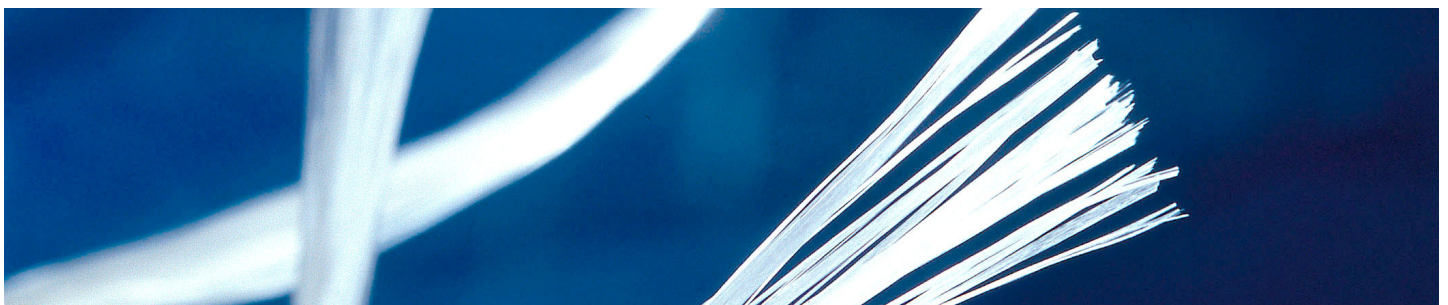
Cem-FIL® 61's new sizing technology reduces the water absorption of the fiber strand, allowing a reduction in the water content of the matrix, or an increase in the fiber content.

In the spray process, Cem-FIL® 61 has good split efficiency and easy chopping with low fuzz generation.

Cem-FIL® 61's hydrophobic behavior makes the mix more fluid and that ensures better compaction and easier release of trapped air.

ADVANTAGES AND BENEFITS

- Alkali resistant glass*
- Good unwinding
- Easy chopping
- High split efficiency
- Ideal for use with complicated profiles
- Excellent reproduction of detail
- Suitable for both premix and spray
- Excellent mechanical performance



FEATURES (nominal values)

Linear weight of Roving (tex)	Linear weight of Strand (tex)	Loss on Ignition (%)	Moisture (%)
ISO 1889 : 1987	ISO 1889 : 1987	ISO 1887 : 1980	ISO 3344 : 1977
2500	82	1.75	0.35 max

- Assembled Roving
- Specific Gravity: 2.68 g/cm³
- Material: Alkali Resistant Glass*
- Softening point: 860°C • 1580°F
- Electrical Conductivity: Very low
- Chemical Resistance: Very high
- Modulus of elasticity: 72 GPa • 10 x 10⁶ psi
- Tensile Strength: 1,700 MPa • 250 x 10³ 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

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 and 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.

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 is subject to independent assessment and approval in Germany (Zulassung N° Z-3.72.1731).
- Cem-FIL® fibers meet safety standards according to European Directive 99/45/EC, 67/548/EEC and their latest amendment.

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