PRODUCT DATA SHEET

CEM-FIL® 61

GRC PREMIX AND SPRAY ROVING

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.

BENEFITS

- Alkali resistant glass*
- Good unwinding
- Easy chopping
- High split efficiency
- Safe and easy to handle
- Very easy incorporation into the matrix
- Great for use with complicated profiles
- Excellent reproduction of detail
- Excellent mechanical performance
- Makes highly durable GRC elements
- Suitable for both premix and spray

APPLICATIONS

- 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 behaviour makes the mix fluid and that ensures good compaction and easy release of trapped air

* 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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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	82	1.75	0.50 max.

- Assembled Roving
- Electrical Conductivity: Very low
- Specific Gravity: 2.68 g/cm^3
- Material: Alkali Resistant Glass*
- Softening point: 860°C – 1580°F
- Chemical Resistance: Very high
- Modulus of elasticity: 72 GPa – 10 x 10^6 psi
- Tensile Strength: 1000–1700 MPa – 145–250 x 10^3 psi

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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 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. Cem-FIL® 61 rovings should be stored away from heat and moisture, and in their original packaging. Optimum conditions are temperature 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 – CERTIFICATION

Cem-FIL® 61 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 Instructions Sheet.

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