



# 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 pre-mix and simultaneous spray methods.



### PRODUCT APPLICATION

In the pre-mix 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
- Safe and easy to handle
- Very easy incorporation into the matrix
- Ideal for use with complicated profiles
- Excellent reproduction of detail
- Excellent mechanical performance
- Makes highly durable GRC elements
- Suitable for both pre-mix and spray



### FEATURES (nominal values)

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	0.50max
	76		

- Assembled Roving
- Specific Gravity: 2.68 g/cm<sup>3</sup>
- Material: Alkali Resistant Glass\*
- Softening point: 860°C • 1580°F

- Electrical Conductivity: Very low
- Chemical Resistance: Very high
- Modulus of elasticity: 72 GPa • 10x10<sup>6</sup> psi
- Tensile Strength: 1,700 MPa • 250 x 10<sup>3</sup> 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<sup>®</sup> 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.

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### PACKAGING and STORAGE

Cem-FIL<sup>®</sup> 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<sup>®</sup> 61 rovings 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.

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### QUALITY STANDARDS – CERTIFICATION

- Cem-FIL<sup>®</sup> 61 fibers are manufactured under a quality Management System approved to ISO 9001.
- Cem-FIL<sup>®</sup> 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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Cem-FIL<sup>®</sup>, Anti-CRAK<sup>®</sup> and Slurry-FIL<sup>®</sup> are Owens Corning brands of Alkali Resistant glass fiber reinforcements. A strategic alliance was established between Owens Corning and Taishan Fiberglass, to manufacture specialty glass products in China. With strong technical support from Owens Corning global Research and Development centers, Cem-FIL<sup>®</sup>, Anti-CRAK<sup>®</sup> and Slurry-FIL<sup>®</sup> AR glass fiber reinforcements are jointly developed, manufactured and delivered to global market.