



INNOVATIONS FOR LIVING™

PRODUCT DATA SHEET



Cem-FIL® 54

GRC Spray Roving

PRODUCT DESCRIPTION

Cem-FIL® 54 is an Alkali Resistant glass fiber assembled roving designed for use in the manufacture of glass fiber reinforced concrete (GRC) composites by the simultaneous spray method.

PRODUCT APPLICATION

Cem-FIL® 54 is a spray roving with easy processing and incorporation, enabling the production of GRC elements with excellent finish and reproduction of detail.



Cem-FIL® 54 provides very good mechanical performance and excellent durability to GRC composites.

Cem-FIL® 54 is suitable for the fabrication of GRC in high humidity conditions.

Cem-FIL® 54 has been tested and approved for use with commonly used spray equipment.

ADVANTAGES AND BENEFITS

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



FEATURES (nominal values)

Linear density of Roving (tex)	Linear density of Strand (tex)	Loss on Ignition %	Moisture (%)
ISO 1889 : 2009	ISO 1889 : 2009	ISO 1887 : 1995	ISO 3344 : 1997
2450	76	2.00	0.50 max
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- Assembled Roving
- Specific Gravity: 2.68 g/cm³
- Material: Alkali Resistant Glass*
- Softening point: 860°C • 1580°F
- Chemical Resistance: Very high
- Modulus of elasticity: 72 GPa • 10x10⁶ 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

Cem-FIL[®] 54

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HOW TO USE – DOSAGES

Cem-FIL[®] 54 rovings are used for spraying with purpose-made GRC spray equipment. The recommended dosage is 5% by weight.

PACKAGING and STORAGE

Cem-FIL[®] 54 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[®] 54 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.

QUALITY STANDARDS – CERTIFICATION

- **Cem-FIL[®] 54** fibers are manufactured under a quality Management System approved to ISO 9001.
- **Cem-FIL[®] 54** fibers fulfil all the prescribed requirements described in the European Technical Approval ETA-11/0410, attested by the EC-Certificate of conformity 0672-CPD-I 13.15.5. So the CE marking is affixed on the packaging of **Cem-FIL[®] 54** fibers and on the accompanying commercial documents.
- **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.

Cem-FIL[®] Customers Service

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