



Vetrotex

Cem-FIL®

Cem-FIL® Fibres



The Reinforcement for Mortars & Concrete

A Saint-Gobain
Company

Cem-FIL® Fibres



High Tensile Strength (1700 MPa)

3-4 times higher than that of steel

High Modulus

10 times that of polypropylene

Excellent Corrosion Resistance

Alkali and acid resistant. Do not rust.

Easy to Incorporate

Do not protrude or spring back from the surface.

Safe to Use

Inorganic, incombustible, with no health risk.

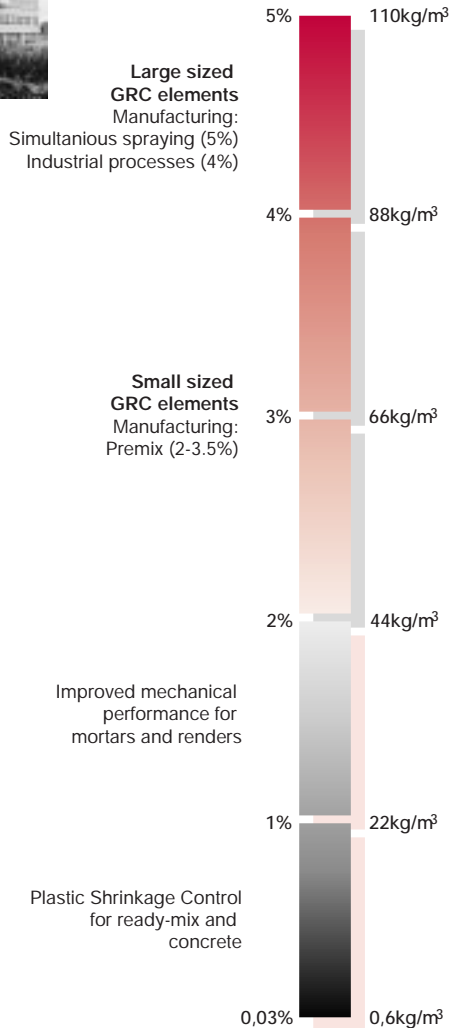


Cem-FIL® alkali-resistant (AR) glassfibres have been specially developed as a reinforcement for cement-based products.

Due to their high zirconium dioxide content and engineered 'size' coating, they offer good resistance to alkaline attack in all cements.



Cem-FIL® Fibres Addition Rate



Applications

Cem-FIL GRC

A thin concrete-like material with excellent mechanical properties

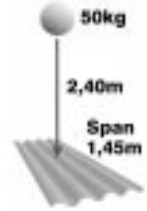
For over 25 years, Cem-FIL® fibres combined with cement matrices, have been the basis for a building material that has changed prefabrication in more than 60 countries ... Cem-FIL Glass Fibre Reinforced Cement (GRC).

When 2-5% of Cem-FIL fibres are blended with a cement/aggregate mix developed by Cem-FIL International, they produce a thin (10-15mm) strong concrete building material, which provides good long-term performance.

This, combined with the inherent properties of light weight, mouldability and a wide choice of finishes, gives a freedom of shape, form and texture to the users of Cem-FIL GRC, that no other material can match.

Today Cem-FIL GRC is used in all fields of the construction industry for the manufacturing of: cladding panels, corrugated roofing sheets, ducts, channels, sound barriers, utility housings.

A large range of manufacturing processes allows the flexibility to satisfy specific needs (for "one-off" architectural projects) or industrial production.



Cem-FIL Anti-Crak

Optimum Quality for concrete and mortars

An increasing number of companies specialising in ready-mix, precast concrete or special mortars are using Cem-FIL fibres at relatively small addition rates (0.03-2.0%) to guarantee and improve the crack and impact resistance of their products.

A specific product range called Cem-FIL Anti-Crak has been developed which meets the requirements of concrete and mortar manufacturers both in terms of efficiency and ease of use.



Cem-FIL® Fibres

A Product Range for each requirement

Large size Cem-FIL GRC Elements

Simultaneous Spraying

Cem-FIL Roving 53/76
Cem-FIL Roving 250/5

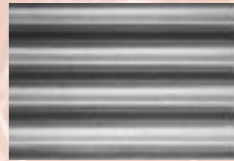
Architectural cladding panels
Architectural permanent formwork
Sound barriers
Urban furniture



Auto-Spray and other industrial processes

Cem-FIL Roving 53/38
Cem-FIL Roving 285/5
Cem-FIL Mat CSM120

General purpose flat sheets
Corrugated Sheets for roofing
Standard architectural panels
Erosion protection panels



Small size Cem-FIL GRC Elements

Premix

Cem-FIL Chopped Strands 60/2
Cem-FIL Roving 61/1
Cem-FIL Chopped Strands 62/2

Meter housings
Telecommunications boxes
Drainage and irrigation channels
Architectural elements
Imitated slates
Urban furniture



Miscellaneous

Cem-FIL Chopped Strands 70/30

Calcium silicate products
Concrete spacer blocks
Refractory mixes
Concrete Repair compounds

Mortars, Renders and Concrete

Cem-FIL Anti-Crak HP

Chopped Strands
Applications

Improve impact, abrasion and tensile resistance.
Wall renders, sealing mortars, floor screeds.



Ready Mix and Precast Concrete

Cem-FIL Anti-Crak HD

Chopped Strands

Disperse instantly in the concrete. Reduces plastic shrinkage cracking and water migration. Produces a dense homogeneous mix. Supplied in pre-dosed, degradable packing for easy use. (One 600g bag per 1m² of concrete).



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