



### RENDERS

**An external facade rendering system commonly fulfils 3 categories of performance: weather protection, prevention of deterioration and decoration. Within those categories, the solutions are specified to achieve guaranteed levels of performance: being decorative, breaking up large areas, protecting, waterproofing, reduced maintenance, maintaining serviceability over a longer lifespan.**

**Cem-FIL® alkali resistant glass fibers were developed for modification and reinforcement of Cement based matrices to ensure increased long term performance and durability.**

**Cem-FIL® fibers have been used successfully for 40 years, in more than 100 countries worldwide. Knowing this fact provides our customers with a level of confidence unequalled in our industry.**

### BENEFITS

The fact that 1Kg of **Cem-FIL® 70** fibers 6 mm have more than 200 million filaments, gives the mortar a uniformly dispersed network of fibers that will significantly improve the thixotropy and the resistance to plastic shrinkage cracking. .

#### PERFORMANCES

- Superior crack prevention and control
- Increases the thixotropy making easier application on vertical surfaces
- Superior durability
- Increased flexural, tensile, compressive and impact strength
- Dissipates stress caused by thermal expansion and contraction
- Superior weather resistance
- Reduced permeability
- Improved freeze-thaw resistance
- Improved abrasion resistance
- UV stable

#### WORKABILITY OF THE FIBER

- Less tendency for clumping during blending
- Fiber density similar to that of mortar ensures no floating or sinking of the fibers
- Excellent workability



John Moores University of Liverpool, UK



2000 National Award: Regent House, UK

## PROCESSING – DOSAGE

**Cem-FIL® 70** and Anti-Crak® HD fibers, available in 6, 12 and 18 mm length, have to be added at 0.02 to 0.2% by weight (0.5 – 5 kg/m<sup>3</sup>) depending on performance level required.

In most cases Cem-FIL® fibers should be added at the plant, as part of the dry mix mortar.

It is also possible to add the fibres on site, after the mortar has been prepared and mixed with water.

## PACKAGING

**Cem-FIL® 70** and Anti-Crak® HD chopped strands are packed in individual plastic bags of 18 kg.

## 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.

---

DELIVERING SOLUTIONS - TRANSFORMING MARKETS - ENHANCING LIVES

---

### Cem-FIL® Customer Service

Alcala de Henares, Spain  
 Tel. : + 34.91 885 58 03  
 Fax : + 34.91 885 58 34  
[Cem-fil@owenscorning.com](mailto:Cem-fil@owenscorning.com)

[WWW.CEM-FIL.COM](http://WWW.CEM-FIL.COM)

---



**OWENS CORNING  
 COMPOSITE MATERIALS, LLC**  
 ONE OWENS CORNING PARKWAY  
 TOLEDO, OHIO 43659  
 1.800.GET.PINK™  
[www.owenscorning.com](http://www.owenscorning.com)  
[www.ocvreinforcements.com](http://www.ocvreinforcements.com)

**EUROPEAN OWENS CORNING  
 FIBERGLAS, SPRL.**  
 166, CHAUSSEE DE LA HULPE  
 B-1170 BRUSSELS  
 BELGIUM  
 +32.2.674.82.11

**OWENS CORNING – OCV ASIA PACIFIC**  
 SHANGHAI REGIONAL HEADQUARTERS.  
 2F OLIVE LVO. MANSION  
 620 HUA SHAN ROAD  
 SHANGHAI 200040  
 CHINA  
 86.21.62489922

The information and data contained herein is offered solely as a guide in the selection of a reinforcement. The information contained in this publication is based on actual laboratory data and field test experience. We believe this information to be reliable, but do not guarantee its applicability to the user's process or assume any responsibility or liability arising out of its use or performance. The user agrees to be responsible for thoroughly testing any application to determine its suitability before committing to production.

It is important for the user to determine the properties of its own commercial compounds when using this or any other reinforcement. Because of numerous factors affecting results, we make no warranty of any kind, express or implied, including those of merchantability and fitness for a particular purpose. Statements in this publication shall not be construed as representations or warranties or as inducements to infringe any patent or violate any law safety code or insurance regulation.

Pub. No. 10011653-D. Owens Corning reserves the right to modify this document without prior notice. ©2010 Owens Corning

Renders\_Industrial\_CemFIL\_ww\_12-2010\_Rev6\_EN