



# Anti-Crak® HD

## Cem-FIL® Fibers for Plastic Shrinkage Control

\* Anti-Crak® HD fibers are part of Cem-FIL® product range

### PRODUCT DESCRIPTION

**Anti-Crak® HD** (High Dispersion) is an engineered AR-glass chopped strand designed for mixing in concrete and all hydraulic mortars.



### PRODUCT APPLICATION

**Anti-Crak® HD** fibers are typically used at low addition level to prevent cracking & improve the performance of concrete, flooring, renders or other special mortar mixes. They incorporate easily into mixes creating a tridimensional homogeneous network of reinforcement in the matrix.

**Anti-Crak® HD** fibers can be added at the central mixing plant to the wet concrete mix; or directly into the ready-mix truck.

**Anti-Crak® HD** fibers do not protrude through the surface and require no additional finishing procedures. The reinforcement is incorporated in the concrete mass and is invisible on the finished surface.

### ADVANTAGES AND BENEFITS

- High dispersion (220 million filaments per kg, 100 million per lb)
- Excellent workability
- Invisible on the finished surface
- Does not corrode
- Control and prevention of cracking in fresh concrete
- Overall enhancement of durability and mechanical properties of concrete
- Effective at very low dosage
- Homogeneous mix
- Safe and easy to handle



### FEATURES (nominal values)

- Fiber length: 3; 6; 9; 12; 18 mm - 1/8" - 1/4" - 3/8" - 1/2" - 3/4" inches
- Filament diameter: 14 µm, (0.000546 in)
- Loss on Ignition: 0.55% (ISO 1980: 1980)
- Moisture: 0.3% max (ISO 3344: 1977)
- Material: Alkali Resistant Glass\*
- Specific Gravity: 2.68 g/cm<sup>3</sup>
- Softening point: 860°C - 1580°F
- Electrical Conductivity: Very low
- Chemical Resistance: Very high
- Modulus of elasticity: 72GPa - 10 x 10<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

Fibers can be introduced directly in the ready mix plant or directly in the concrete truck.  
Recommended dosage is 600 g/m<sup>3</sup> (1 lb/cu.yd) of concrete to control plastic shrinkage cracking

### PACKAGING and STORAGE

Anti-Crak® HD fibers are packed in individual paper bags (water dispersible) or in plastic bags.

Anti-Crak® HD fibers 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 low 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® 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.

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