

Anti-Crak® HD

Cem-FIL® Chopped Strands 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/cm³
- Softening point: 860°C - 1580°F
- Electrical Conductivity: Very low
- Chemical Resistance: Very high
- Modulus of elasticity: 72GPa - 10 x 10⁶ 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

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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/m³ (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.

Cem-FIL® Customer Service

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

WWW.CEM-FIL.COM



INNOVATIONS FOR LIVING®

**OWENS CORNING
COMPOSITE MATERIALS, LLC**
ONE OWENS CORNING PARKWAY
TOLEDO, OHIO 43659
1.800.GET.PINK™
www.owenscorning.com
www.ocvreinforcements.com

**EUROPEAN OWENS CORNING
FIBERGLAS, SPRL.**
166, CHAUSSÉE 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

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