



# Anti-Crak<sup>®</sup> HD

## Chopped Strands for Plastic Shrinkage Control

Anti-Crak<sup>®</sup> fibers are part of the Cem-FIL<sup>®</sup> product range

### PRODUCT DESCRIPTION

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



### PRODUCT APPLICATION

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

Anti-Crak<sup>®</sup> 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

- Excellent workability
- High Dispersion : 200 million filaments per kg in fiber length 12 mm
- 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	Filament Diameter (ISO 1888:2006)	Loss on Ignition (%) (ISO 1887 : 1995)	Moisture (%) (ISO 3344 : 1997)
3 - 6 - 9 - 12 - 18 mm / 1/8" - 1/4" - 3/8" - 1/2" - 3/4" inches	14 µm / 0.00055"	0.60	0.50 max

- Electrical Conductivity: Very low
- Specific Gravity: 2.68 g/cm<sup>3</sup>
- Material: Alkali Resistant Glass\*
- Softening point: 860°C • 1580°F
- Chemical Resistance: Very high
- Modulus of elasticity: 72 GPa • 10x10<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 in the ready mix plant or directly in the concrete truck in the last stage, when all the aggregates have been added and mixed.

Recommended dosage is 600g/m<sup>3</sup> (1 lb/cu.yd) of concrete to control plastic shrinkage cracking.

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### PACKAGING and STORAGE

Anti-Crak<sup>®</sup> HD chopped strands are packed in individual 600g paper bags (water dispersible) or in plastic bags (18 Kg).

Anti-Crak<sup>®</sup> HD chopped strands 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.

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### QUALITY STANDARDS – CERTIFICATION

- Anti-Crak<sup>®</sup> HD fibers are manufactured under a quality Management System approved to ISO 9001.
- Anti-Crak<sup>®</sup> and Cem-FIL<sup>®</sup> fibers are not classified as dangerous by the Regulation 1272/2008/EC. For more information, please refer to our Safe Use Instructions Sheet.



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Cem-FIL<sup>®</sup>, Anti-CRAK<sup>®</sup> and Slurry-FIL<sup>®</sup> are Owens Corning brands of Alkali Resistant glass fiber reinforcements. A strategic alliance was established between Owens Corning and Taishan Fiberglass, to manufacture specialty glass products in China. With strong technical support from Owens Corning global Research and Development centers, Cem-FIL<sup>®</sup>, Anti-CRAK<sup>®</sup> and Slurry-FIL<sup>®</sup> AR glass fiber reinforcements are jointly developed, manufactured and delivered to global market.