**PRODUCT DESCRIPTION**

Anti-Crak® HD (High Dispersion) is an engineered AR-glass chopped strand designed for mixing in concrete and all hydraulic mortars where uniform dispersion of the fibre reinforcement is needed.

**PRODUCT APPLICATION**

Anti-Crak® HD fibers are typically used at a low level of addition to prevent cracking & improve the performance of concrete, flooring, renders or other special mortar mixes. They incorporate easily into mixes giving a very large number of distributed reinforcing fibres from a small weight of product. 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.

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

**ADVANTAGES AND BENEFITS**

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

**TECHNICAL CHARACTERISTICS (nominal values)**

- Fiber length: 3; 6; 9; 12; 18 mm - ⅛" - ⅜" - ⅝" - ⅞" inches
- Filaments diameter: 14 µm, 0.000546 in
- Specific Gravity: 2.68 g/cm³
- Size Content: 0.55% (ISO 1980 : 1980)
- Softening point: 860 °C • 1580 °F
- Moisture: 0.3% max (ISO 3344 : 1977)
- Electrical Conductivity: Very low
- Material: Alkali Resistant Glass
- Resistance to chemical aggressions: Very high
- Modulus of elasticity: 72 GPa • 10 x 106 psi
- Tensile Strength: 1,700 MPa • 250 x 103 psi

* Our fibres are manufactured with high Zirconia content in compliance with ASTM C1666/C 1666/M-07 and EN 15422 and under the recommendations of PCI and GRCA
Anti-Crak® HD
Cem-FIL® Chopped Strands for Plastic Shrinkage Control

HOW TO USE – DOSAGES

Fibers can be introduced directly on the ready mix plant or directly in the concrete truck. Recommended dosage is 600 gr/m³ (1 lb/cu.yd) of concrete to control plastic Shrinkage.

PACKAGING AND STORAGE

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

Anti-Crak® HD chopped strands should be stored away from heat and moisture, and in their original packaging. The best conditions are:

- Temperature: 15 ºC – 35 ºC
- 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.

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 Nº Z-3.72.1731).