

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/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.

ANTI-CRAK® FIBRES

High tensile Strength (1700 mpa)

3-4 times higher than that of steel.

High elastic Modules

10 times that of polypropylene.

Excellent Corrosion Resistance

Alkali and Acid Resistance. Do not rust.

Easy to incorporate

Do not protrude or spring back from the surface.

Disperse instantly in the concrete.

Safe to use

Inorganic, incombustible, with no health risk.

ANTI-CRAK® HD (High Dispersion)

(values related to 12 mm. length)

Product form: Monofilament as a result of dispersal of fibres bundles on contact with moisture

Numbers of fibres: 200 million/Kg

Aspect Ratio: 857:1

Specific surface area: 105 m²/kg

Typical addition rate: 0.6 kg/m³ of concrete

Anti-Crak® Area Of Applications

- ❖ FLOOR SCREEDS / SLABS ON GROUND :
- ❖ READY MIX CONCRETE :
- ❖ PRECAST CONCRETE :
- ❖ RENDERS / STUCCO :
- ❖ GUNITE / SHOTCRETE :

HOW TO USE – DOSAGES

Recommended Dosage of Cem-FIL Anti-Crak HD

- ❖ 600 gms per cubic metre of concrete
- ❖ 85 gms per bag of cement.

Higher Dosage Will result in better mechanical properties.

DIRECTIONS FOR USE

1. While mixing Plaster/concrete/mortar in site mixer or manually, wet mix is prepared first and CEM-FIL Anti Crak HD is added last and mixed just long enough for visual confirmation of dispersion.
2. In RMCs, cem-FIL Anti Crak HD can be added at any of the following stages, in the main, transit mixer or at the site with just 1 minute required for Uniform dispersion.

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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