Original
Composites &
Fiberglass

ANTI-CRAK® HD

Crack mitigation smooth finish

MICROPLASTICS-FREE

Anti-CRAK® HD is designed to provide plastic shrinkage crack control and high-quality surface finish to decorative hardscapes, pool decks, sidewalks, slabs-on-ground, and other concrete applications.

- Produced with Cem-FIL® AR-glass, an alkali-resistant glass specifically designed for concrete reinforcement, and lives up to its 50-plus years.

MONOFILAMENT MICROFIBER REINFORCEMENT FOR MORTAR AND CONCRETE

Product Benefits

Crack Control

- Enhanced plastic shrinkage crack control
- Improved protection in warmer and drier environments
- Neutral buoyancy: won't float or sink in fresh concrete
- Uniform dispersion of 200 million filaments per kg of 12 mm fiber

Enhanced Performance

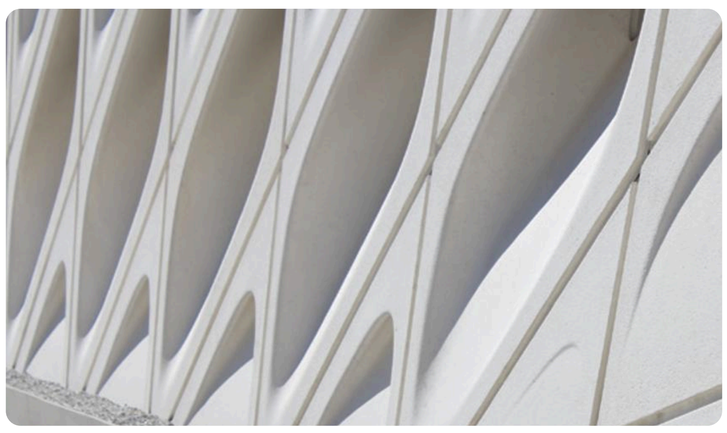
- High elastic modulus fiber giving crack control beyond plastic state
- Mineral fiber with high affinity to cementitious materials
- Increased flexural strength
- Higher-quality finished surface
- No rust, no staining
- Invisible in the concrete and at the surface

Faster Work

- Ready to add to the concrete, either in the mixer or at the job site
- Low impact on workability
- Easy and trouble-free pumping
- Reduced chipping from detailed forms
- Flows and dispenses easily for automated dosing

Application

Anti-CRAK® HD is designed to reinforce decorative concrete and slabs on ground against plastic shrinkage cracking, including sidewalks, hardscapes, and pool decks. Anti-CRAK® HD is also broadly used in manufactured concrete products, dry mix formulations, UHPC GFRC/GRC, and other concrete applications.



ANTI-CRAK® HD | FIBER REINFORCEMENT | JULY 2026

Technical Characteristics

FIBER LENGTH	FILAMENT DIAMETER (ISO 1888)	MODULUS OF ELASTICITY	TENSILE STRENGTH
3 – 6 – 9 – 12 – 18 mm 1/8 – 1/4 – 3/8 – 1/2 – 3/4 inches	14 µm/0.00055"	72 GPa 10 x 10^6 psi	>1 000 MPa >145 x 10^3 psi

- Electrical Conductivity: very low
- Specific Gravity: 2.68 g/cm³
- Material: [1]Alkali-Resistant Glass
- Softening Point: 1 580º F | 860º C
- Chemical Resistance: very high
- Loss on Ignition (ISO 1887):
  - 0.7% for fibers 3 to 6 mm
  - 0.55% for fibers 9 to 18 mm
- Moisture (ISO 3344): 0.50% max

[1]In compliance with ASTM C 1666 and EN 15422, and under the recommendations of PCI and GRCA.

How to Use

It is recommended to add Anti-CRAK® HD into wet concrete during the last stage of mixing, or directly in a ready-mix concrete truck on the job site. For dry mix applications, fibers can be added in the dry premix.

The recommended minimum dosage for ready-mix concrete is 600 g/m³ or 1 lb/yd³. For dry mix and other applications, the dose may be as high as 1% by volume limited only by workability.

Packaging & Storage

Anti-CRAK® HD all lengths: Packed in plastic bags (18 kg).

Anti-CRAK® HD 6, 12, and 18 mm: Packed in individual 600 g and 1 lb paper bags (water dispersible).

Specific packaging can be negotiated based on volume applications.

Anti-CRAK® HD should be stored away from heat and moisture, and must stay in its original packaging. Optimum conditions are temperature between 15 °C and 35 °C (59 °F to 95 °F) and humidity between 35% and 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

Anti-CRAK® HD is manufactured under a quality management system approved to ISO 9001.

Anti-CRAK® is not classified as dangerous by the Regulation 1272/2008/EC. For more information, please refer to our Safe Use Instruction Sheet.

Verified Environmental Product Declaration according to ISO 14025 and EN 15804:2019 available upon request.

MAKE MORE POSSIBLE™

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