



ANTI-CRAK® HP SUPERIOR FINISH AND MORE TOUGHNESS

Anti-CRAK® HP is designed to provide high performance crack control and toughness to commercial and residential slabs, garage floors, and other concrete applications.

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

FIBER REINFORCEMENT FOR MORTAR AND CONCRETE

Product Benefits



Crack Control

- Plastic shrinkage crack control
- High modulus fiber giving crack control in hardened concrete
- Superior finishability
- Neutral buoyancy and uniform dispersion
- No rust, no staining
- Multi-filament strand mineral fiber with natural affinity to cementitious materials



Tougher

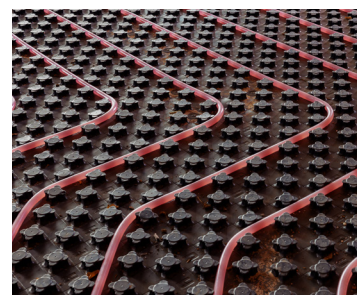


Faster Work

- Replaces the time-consuming installation of welded wire mesh
- Ready to add to the concrete, either in the mixer or at the job site
- Fast dispersion during mixing
- Low impact on workability
- Easy and trouble-free pumping
- Flows and dispenses easily for automated dosing

Applications

Anti-CRAK® HP is designed to provide enhanced crack control and toughness to commercial and residential slabs and garage floors. Additionally, Anti-CRAK® HP is also broadly used in manufactured concrete products, dry mix formulations, stucco, render, UHPC, and other concrete applications.



Technical Characteristics (Nominal Values)

FIBER LENGTH	ASPECT RATIO (LENGTH/DIAMETER)	EQUIVALENT DIAMETER	MODULUS OF ELASTICITY ³	TENSILE STRENGTH ²
12 – 18 – 24 mm 1/4 – 3/4 – 1 inches	58 – 85 – 55	0.20–0.50 mm	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:** ¹Alkali-Resistant Glass
- **Softening Point:** 860°C/1580°F
- **Chemical Resistance:** very high
- **Loss on Ignition (ISO 1887):** 0.80–2.00%
- **Moisture (ISO 3344):** 0.50% max

¹ In compliance with ASTM C1666 and EN 15422, and under the recommendations of PCI and GRCA.

² Tested by ASTM D 2343.

How to Use

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

The recommended dosages are:

	PLASTIC SHRINKAGE		THERMAL AND SHRINKAGE CRACKING			
FIBER TYPE	Micro		Micro		Macro	
FIBER REFERENCE	HP12–HP18		HP12–HP18		HP24	
ADDITION RATE	kg/m ³ 0.6–1.2	lbs/yd ³ 1.0–2.0	kg/m ³ 1.2–5	lbs/yd ³ 2.0–8.4	kg/m ³ 1–5+	lbs/yd ³ 1.6–8+
BENEFIT	Early age-cracking mitigation		Anti-cracking mesh replacement		Anti-cracking mesh replacement	
PRIMARY APPLICATION	Concrete flatwork – flooring		Concrete flatwork – flooring		Residential floor, light, commercial floors	

Packaging & Storage

Anti-CRAK® HP 12: Packed in 600g and 1lb paper bags (water dispersible), and plastic bags (6 kg)

Anti-CRAK® HP 18: Packed in 7 kg plastic bags

Anti-CRAK® HP 24: Packed in 5 kg plastic bags

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

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

CE-marking and Declaration of Performance (<https://www.owenscorning.com/en-us/composites/declaration-of-performance>) as fibers for use in concrete and mortar through European Technical Assessment.

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



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