

ANTI-CRAK® HP 67/36

MACRO GLASS FIBER FOR CONCRETE REINFORCEMENT



DESCRIPTION

- **Anti-Crak® HP 67/36** is a “High Performance” Alkali Resistant glass macro fiber, engineered to increase flexural performance adding toughness, impact and fatigue resistance to concrete. Anti-Crak® HP 67/36 can be used as secondary reinforcement and, in specific applications, also as primary reinforcement.
- Anti-Crak® HP 67/36 contributes also to control plastic, thermal and drying shrinkage cracking.
- Anti-Crak® HP 67/36 disperses quickly and evenly throughout the concrete matrix, because the specific gravity is similar to the aggregates used in concrete. This inherent characteristic of glass guarantees high fiber performance throughout the concrete mass.

BENEFITS

- Alkali resistant glass*
- Improves flexural performance of hardened concrete
- Control and prevention of cracking in fresh and hardened concrete and mortars (plastic shrinkage cracking, drying shrinkage and thermal cracking, service life cracking under load)
- Fast and uniform dispersion during blending
- Does not affect concrete pumpability
- Allow for high dosages without affecting the workability
- Will not corrode
- No additional water demand
- Easy to handle

APPLICATIONS

- Anti-Crak® HP 67/36 has been specifically designed to replace secondary and primary reinforcement (welded wire reinforcement, light rebar, steel and synthetic fibers) in residential, commercial and industrial slabs-on-ground, compression layers, pavements and precast concrete.

* Our fibers 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



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TECHNICAL CHARACTERISTICS

Fiber length	Aspect ratio (length/diameter)	Filament Diameter (ISO 1888 : 2006)	Loss on Ignition (%) (ISO 1887 : 1995)	Moisture (%) (ISO 3344 : 1997)
36 mm 1 - ½"	67	19 µm / 0.00075"	2.00	0.50 max.

- Electrical Conductivity: Very low
- Specific Gravity: 2.68 g/cm³
- Material: Alkali resistant glass*
- Softening point: 860°C – 1580°F
- Chemical Resistance: Very high
- Modulus of elasticity: 72 GPa – 10 x 10⁶ psi
- Tensile Strength: 1000–1700 MPa – 145–250 x 10³ psi

DOSAGE

Anti-Crak® HP 67/36 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. Addition rates are dependent on the application and desired performance levels. Please, contact your Owens Corning sales representative for further recommendations. Recommended dosages are:

Benefits	Secondary Reinforcement	Primary Reinforcement In Flooring Application
Recommended dosage	1.5 – 5 kg/m ³ 2.5 – 8 lb/cu. yd	5 – 15 kg/m ³ 8 – 25 lb/cu. yd

PACKAGING AND STORAGE

Anti-Crak® HP 67/36 chopped strands are packed in 5 kg plastic bags. Anti-Crak® HP 67/36 chopped strands should be stored away from heat and moisture, and in their original packaging. Optimum conditions are temperature between 15°C and 35°C 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 – CERTIFICATION

Anti-CRAK® HP 67/36 fibers are manufactured under a quality Management System approved to ISO 9001.

Anti-CRAK® and Cem-FIL® fibers are not classified as dangerous by the Regulation 1272/2008/EC. For more information, please refer to our Safe Use Instructions Sheet.

For further info [please send a email to: cem-fil@owenscorning.com](mailto:cem-fil@owenscorning.com) / www.cem-fil.com

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