PRODUCT DATA SHEET

ANTI-CRAK® HP 12

GLASS FIBER TO CONTROL CRACKING IN CONCRETE AND MORTAR

DESCRIPTION

- **Anti-Crak® HP 12** is a glass fiber made from AR (Alkali Resistant) glass filaments and engineered to reinforce concrete and mortar against cracking.
- Anti-Crak® HP 12 product has an excellent bond with hydraulic matrices.
- Anti-Crak® HP 12 solution is suitable for all types of concrete formulations and mixing methods due to its specific size, which allows for excellent dispersion of fibers, easy processing, and a very quality finish.

BENEFITS

- Alkali resistant glass*
- Reduction of cracking in fresh and hardened concrete and mortar (plastic shrinkage cracking, drying cracking and thermal cracking)
- Improves the durability of mortar and concrete structures
- Disperses quickly during mixing
- Does not impair concrete pumping
- Allows for high dosages without affecting the workability of the concrete
- Does not require additional water
- Does not corrode
- Easy to handle

APPLICATIONS

- Anti-Crak® HP 12 product was developed to improve resistance against cracking in concrete and mortar. It is mainly used to reinforce screeds, and in residential, commercial, and industrial floor slabs.

* 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)
12 mm – ¾''	58	17 µm / 0.00067"	1.00	0.50 max.

- Electrical Conductivity: Very low
- Specific Gravity: 2.68 g/cm^3
- Material: Alkali resistant glass*
- Softening point: 860°C – 1580°F
- Chemical Resistance: Very high
- Modulus of elasticity: 72 GPa – 10 x 10^6 psi
- Tensile Strength: 1000-1700 MPa – 145-250 x 10^3 psi

DOSAGE

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	Limitation of cracking during plastic shrinkage	Replacement of the anti-cracking welded wire mesh
Recommended dosage	0.3 – 0.6 kg/m^3 0.5 – 1 lb/cu. yd	0.9 – 1.5 kg/m^3 1.5 – 2.5 lb/cu. yd

PACKAGING AND STORAGE

Anti-Crak® HP 12 fibers are packed in individual 600 g and 1 lb paper bags (water dispersible) or in plastic bags (6 kg). Anti-Crak® HP 12 glass fiber 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 12 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: cem-fil@owenscorning.com / www.cem-fil.com

Americas
Owens Corning
Composite Materials, LLC.
One Owens Corning Parkway
Toledo, Ohio 43659
1.800.get.pink™
+1-623-566-0206

Europe
European Owens Corning
Fiberglas Sprl.
166 Chaussée de la Hulpe
B-1170 Brussels
Belgium
+33.479.75.5300

Asia Pacific
Owens Corning Composite Solutions Asia Pacific
Shanghai Regional Headquarters
40/F, Pudong Kerry Parkside,
1155 Fang Dian Road, Pudong, Shanghai,
201204, China
+86-21-6101 9666

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