



Anti-Crak® HP 58/12

Glass fiber to prevent cracking in concrete and mortar

Anti-Crak® HP fibers are part of the Cem-FIL® product range

PRODUCT DESCRIPTION

Anti-Crak® HP (High Performance) 58/12 is a glass fiber made from AR (Alkali Resistant) glass filaments and engineered to reinforce concrete and mortar against cracking.

Anti-Crak® HP 58/12 has an excellent bond with hydraulic matrices and increases its tensile strength before cracking.

Anti-Crak® HP 58/12 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 high quality finish.

PRODUCT APPLICATION

Anti-Crak® HP 58/12 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**.



PRODUCT BENEFITS

- Control and prevention 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
- Improves the mechanical properties of hardened concrete
- 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

FEATURES

- Length: 12 mm
- Aspect ratio (length/diameter): 58
- Density: 2.68 g/cm³
- Modulus of elasticity: 72 GPa
- Size content: 0.8% (ISO 1887)
- Moisture: 0.3% max (ISO 3344)

- Material: Alkali Resistant Glass
- Softening point: 860°C
- Electrical conductivity: Very low
- Chemical resistance: Very high
- Tensile strength: 1,700 MPa



*Our fibers are manufactured with a high zircon 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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USE – DOSAGE

The fibers can be introduced into the skip or mixer at the concrete plant or in the truck mixer on-site. The dosage to use depends on the concrete or mortar formula and desired performance levels. For mortar and concrete, the following dosages are common:

Desired Benefit	No cracking during plastic shrinkage	Replacement of the anti-cracking welded wire mesh
Recommended Dosage	0,3 – 0,6 kg/m ³	0,9 - 1,5 kg/m ³

However, we recommend performing tests to determine the optimum dosage to use for the intended application and desired level of performance.

PACKAGING AND STORAGE

Anti-Crak® HP 58/12 fibers are packaged in individual 600 g and 1 lb water-dispersible bags.

Anti-Crak® HP fibers should be kept in their original packaging and stored away from heat and moisture.

The best storage conditions are:

- Temperature : 15°C – 35°C.
- Moisture : 35 % – 65 %.

QUALITY – CERTIFICATION

- Anti-Crak® HP fibers are manufactured under the ISO 9001 standard quality management system. In addition, the actual performance of Anti-Crak® fibers is subject to independent assessment and approval in Germany (Zulassung no. Z-3.72.1731).
- Anti-Crak® fibers meet the safety standards defined by European Directives 99/45/EC, 67/548/EEC, and their latest amendment.

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