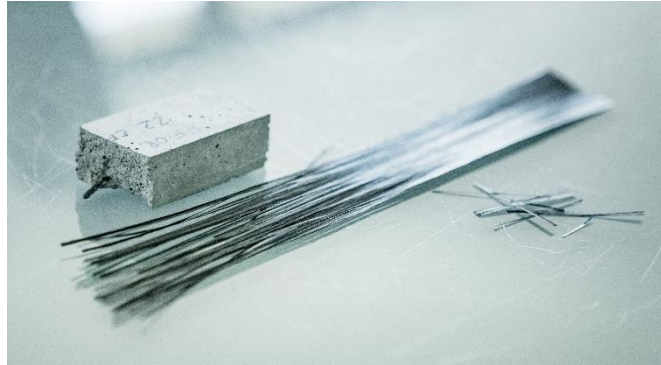


C-Bar® – Technical Data Sheet

Carbon short cut fiber for concrete applications

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C-Bar® are impregnated, integral, thin, short-cut carbon fibers for concrete applications. The corrosion-free fibers are specifically designed for concrete reinforcement to increase flexural strength and initial crack stress in the component. Fiber reinforcement minimizes cracking in the concrete element. C-Bar® are non-corrosive, chemically inert and have good durability.



As an alternative to conventional steel reinforcement, the corrosion-free C-Bar® can be used, for the realization of thin-walled concrete elements and thus contribute to a reduced use of resources.

C-Bar® are compatible with water-based systems and can be added as a solid to a standard mixer. The coating and the high strand integrity of the C-Bar® prevent the formation of fiber agglomerates during processing in concrete. At the end of their life cycle, concrete elements reinforced with C-Bar® are recyclable together with the concrete.

The C-Bar® are available in packaging units of 1 kg, 6 kg and 12 kg.

Material characterization

Fiber	Polyacrylonitrile-based carbon fiber (carbon)
Color	black
Coating	Polymer dispersion
Coating weight	10 Ma%
Cut length	6 mm, 12 mm, 18 mm, 22 mm, 33 mm, 44 mm
Bulk density	1.57 g/cm ³
Tensile strength	4.14 MPa
Modulus of elasticity	242 GPa
Yarn count	119 tex
Recommended matrix	Cementitious systems, inorganic-non-metallic binders, concretes with a maximum grain size up to 16 mm
Dosage	Concrete applications 0.04 - 5.0 % by volume

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