

REINFORCE ALL-WAYS



PREMIX RCF 1050 FIBER



PREMIX-RCF 1050 STEEL FIBER

PREMIX-RCF1050, Steel Fibers are designed specifically for the reinforcement of concrete, mortars and other cementitious mixes.

PREMIX-RCF1050 is a cold drawn round wire fiber, continually deformed to provide optimum performance within the concrete mix.

PREMIX-RCF1050 Steel Fibers are European Standard EN 14889-1:2006 compliant and have been specifically designed to meet or exceed the defined performance requirements.

COMPLIANCE

Complies with European Standard EN 14889-1:2006 Fibers for Concrete Part 1: Group 1. Conforms to ASTM A820/A820M-04 Standard Specification for Steel Fibers for Fiber Reinforced Concrete. Type 1 cold drawn wire

FEATURES & BENEFITS

- Provides uniform multi-directional concrete reinforcement
- Increases crack resistance, ductility, toughness of concrete
- Improves impact resistance, fatigue endurance and shear strength of concrete
- High tensile strength fibers bridging joints and cracks to provide tighter aggregate interlock resulting in increased load carrying capacity
- Provides increased ultimate load bearing capacity which allows possible reduction of concrete section
- Requires less labour to incorporate into concrete than conventional reinforcement
- Offers economical concrete reinforcement solutions with greater project scheduling accuracy
- Ideally suited for hand or vibratory screeds, laser screeds and all conventional finishing equipment

PRIMARY APPLICATIONS

- Ground supported slabs
- Suspended ground slabs
- Joint less floors
- External roads & pavements

PHYSICAL PROPERTIES

Fiber Length	50 mm
Fiber Diameter	1.0 mm
Aspect Ratio	50
Tensile Strength	1200 N/mm ²
Deformation	Continuously deformed
Appearance	Bright and clean wire



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PRODUCT USE

MIXING DESIGNS AND PROCEDURES:

PREMIX-RCF1050 steel fibers can be added during or after the batching of the concrete but should never be added as the first component. Such devices as conveyor belts, chutes and dispensers may be used to add fibers to the mixer at the ready mix plant. After the fibers have been added, the concrete should be mixed for sufficient time (minimum 5 minutes at full mixing speed) to ensure uniform distribution of the fibers throughout the concrete. The use of mid or high-range water reducing admixtures can be advantageous, but is not essential.

PLACING

PREMIX-RCF1050 Steel Fibers can be pumped and placed using conventional equipment. Hand or vibratory screeds and laser screeds can be used with PREMIX-RCF1050 Steel Fibers.

FINISHING

Conventional finishing techniques and equipment can be used when finishing PREMIX-RCF1050 Steel Fiber concrete. In some cases an extra bull float process is advised and lowering the angle of the power float blades will help to minimize fiber exposure on the surface.

DOSAGE RATE:

The fibre dosage will vary depending on the type of application, concrete mix design and the performance/ toughness requirements of each particular project. Typically, steel fiber dosage will be in the range of 15 kg to 35 kg per cubic meter. Premix technical staff can offer advice on dosage requirements once performance requirements have been established by the project designer / engineer.

COMPATIBILITY

PREMIX-RCF1050 Steel Fibers are compatible with all curing compounds, super plasticizers, water reducers, hardeners and coatings.

SAFETY

It is recommended that gloves and eye protection be used when handling or adding PREMIX-RCF1050 Steel Fibers to concrete.

PACKAGING

PREMIX-RCF1050 fibers are available, as standard, in 25 kg bag. They are also available upon request in different weight bags. The bags should be protected against rain and snow.

TECHNICAL SERVICES

Premix SFRC Systems is backed by our team of reinforced concrete specialists who can carefully analyze each project and provide fibre reinforced concrete design solutions to ensure maximum project performance and cost efficiency.



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