

UniFiber 250

Alkaline resistant chopped strand fiber

Description

UniFiber 250 is a new generation alkaline resistant chopped strand fiber produced from coated fiberglass. **UniFiber 250** is especially developed to be used as a secondary reinforcing material to concrete and cement-based mortars to prevent plastic shrinkage cracks.

UniFiber 250 is 18 mm length. Other fiber lengths are also available upon request.

Features and benefits

- Provides an alternate method of secondary reinforcing in concrete.
- Requires no minimum amount of concrete cover.
- Improved compressive strength and toughness.
- Reduced permeability with improved wear, abrasion and impact resistance.
- Suitable for internal and external application.
- Safe and easy to use.
- Reduced plastic shrinkage cracking

Recommended for

UniFiber 250 is added to concrete and cement base mortars where no cracks are permitted. It is also used as reinforcement for civil engineering decorative materials (such as GRC) and gypsum mortars.

Typical floor applications are:

- Concrete floor slabs and slabs-on-grade.
- Interior and exterior plaster.
- Shotcrete repair mortars.
- Driveways and sidewalks.
- Stucco, overlays and toppings.
- Airport runways.
- New Jersey concrete barriers.

Note:

UniFiber 250 is not suitable for the following:

- Decreasing the thickness of slabs.
- Replacing any moment or structural steel

- Increasing joint spacing between floor slabs beyond Egyptian code and ACI standards guidelines.
- Replacing structural or load bearing reinforcement.

Composition

Alkaline resistant fiberglass chopped fibers coated with polypropylene.

Packaging

UniFiber 250 is available in 0.9 and 15 kg bags.

Coverage

The standard application rate for **UniFiber 250** is 0.9 kg/m³. For special performance, please consult ACC Technical Department.

Technical data

Absorption	Nil
Diameter	14-17 microns
Fiber length	18 mm
Color	White

Instruction for use

UniFiber 250 is compatible with all concrete admixtures but requires no admixtures to work. It is a mechanical, not chemical, process.

The addition of **UniFiber 250** does not require any additional water or other mix design changes at normal rates.

UniFiber 250 is added to the mixer before, during or after batching the other concrete materials without any changing in mixing time or mixing speed.

Storage and shelf life

To maintain its quality and suitability for use, the product should be stored in its unopened packaging, off the ground on pallets or similar structures, in a cool and dry environment. When stored under these recommended

conditions, the product remains suitable for use for 12 months from the manufacturing date stated on the packaging. Protect from fire.

Health and Safety

UniFiber 250 is very stable and not considered as a hazardous material. If treated according to the purpose of use, no harm or injury to be expected. Common rules of occupational health and safety should be applied. In fire condition, carbon dioxide and other gases may be generated. Dispose excess material to special waste collection point in accordance with local & national regulation. Keep out of reach of children. For further information, please ask for Safety Data Sheet for this product.

The most up-to-date TDS can be obtained from ACC Customer Service Department, or downloaded from our website: www.acc.com.eg.

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- Waterproofing.
- Flooring.
- Tile Adhesives & Grouts.
- Concrete Repair.
- Non-Shrink Grouts.
- Bonding Agents.
- Exterior Façade Coatings.
- Premixed Fairing Coats, Renders & Mortars.
- Putties (stucco).
- Sealers & Emulsion Paints.