



Toll Free Number. 800CEMEX
Cash Customer Hotline. 800CEMEX 4U

Dubai

Ready-Mix Concrete
CEMEX TOPMIX LLC
PO Box 37900, Al-Quoz
Industrial Area 3, Dubai, UAE
Tel : +971 4 347 0427/477 (Al-Quoz)
Fax : +971 4 347 1713
Tel : +971 4 880 1212 (Jebel Ali)
Fax : +971 4 880 1033
Email: info.dubai@cemex.com

Dubai

Cement & Slag (GGBS)
CEMEX FALCON LLC
PO Box 66429
Jebel Ali Industrial Area
Dubai, UAE
Tel : +971 4 880 1212
Fax : +971 4 880 1033

Abu Dhabi

Ready-Mix Concrete
CEMEX SUPERMIX LLC
PO Box 72071
Mussafah Industrial Area
Abu Dhabi, UAE
Tel : +971 2 551 5501
Fax : +971 2 551 5560
Email: info.abudhabi@cemex.com

www.cemex.ae
www.readymix4u.ae

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FIBRE CONCRETE

CEMEX
Building a better future

FIBRE CONCRETE

بوابة المؤتمر
CONVENTION GATE

Cemex Fibre Concrete Technology are pioneering products that combine micro and macro-synthetic or steel fibre reinforcement that take concrete reinforcement to a new level of performance.

Concrete designed with micro or macro fibres can be used either for structural applications, where the fibres can potentially substitute for steel reinforcement, or for reducing shrinkage.

The introduction of fibres into the concrete mix results in: increased toughness and ductility; increased impact and shatter resistance; reduced risk of cracking; improved surface durability and reduced long-term maintenance costs of the hardened concrete.

ECONOMICAL BENEFITS

Concrete and reinforcement is placed in one operation.
Concrete is supplied with the exact amount of reinforcement that is required (no wastage).
Reductions in reinforcement costs in addition to the savings associated with faster and easier placement.
Cost saving per square metre compared to concrete placed with traditional steel mesh reinforcement.
Reduces the need to store, cut, place and fix steel reinforcing mesh on site.

KEY FEATURES AND BENEFITS

Improves Plastic and Hardened properties of concrete:
Minimizes bleeding and plastic settlement.
Reduces or eliminates plastic shrinkage-cracking.
Help prevent segregation.
A More cohesive concrete mix.
More resistant to cracking from tensile and other stress.
Increased impact and abrasion resistance.

Design Information

All designs follow good industry practice to verify any proposed solution to meet specific project requirements. Assistance with jointing layout and details can be provided to meet both the design and construction requirements. Further advice can be given on potential jointing solutions and detail dependent on the specific design solution and preferred method of construction.

Installation

Fibre reinforcement is added to the concrete at the CEMEX batching plant at the precise specified dosage. CEMEX Fiber reinforcement concrete has no special handling requirements and can be placed using conventional techniques such as direct discharge, skip or pump. The concrete arrives on site with the fibres evenly distributed throughout, and the process of placing concrete and reinforcement is completed in a single operation.

TECHNICAL DATA

Concrete Grade (N/mm ²)	30 to 80
Durability ¹ (RCP, WP, WA)	800 to 4000, 10 to 20mm, 1.0 to 3.0
Workability Slump (mm)	75 to 200
Workability Retention (Hours)	1 to 3
Maximum Aggregate Size (mm)	10 or 20
Typical Hardened Density (Kg/m ³)	2450
Cement Types ²	OPC, SRC, MSRPC
Supplementary Cementitious Materials ³	DURACEM®/ Microsilica
Colours	Grey or Colored

PERFORMANCE FOOTPRINT



APPLICATIONS

FLOORING	HIGH PERFORMANCE	PAVING
General Industrial Power Floated Domestic Flooring Garage Workshop.	Internal and external ground supported slabs Heavy duty floors with high abrasion risk Re-cycling plants. Large plant and machinery yards Docks and maritime facilities Military sites. Beam & Block floors. Composite metal decking systems.	External ground supporte slabs Roadways and pavements Farm yards and roadways Domestic driveways.