

FCGTM

Fiber-reinforced Cementitious Grout



Building
&
Transportation



Oil, Gas
&
Industrial



Offshore
&
Onshore



Water
&
Wastewater



PRODUCT DESCRIPTION

CTech-LLC[®] FCGTM is a cementitious grout reinforced with fibres to provide excellent impact and vibration resistance.

Formulated from a blend of high strength portland cement, graded aggregates and micro fibre, FCGTM has improved mechanical properties and durability compared to conventional cementitious grout.

ADVANTAGES

- Contain fibers - Improved mechanical properties compared to conventional cementitious grout.
- Durable with high final strength.
- Easy application, mix with water.
- Rapid strength development.
- Easy to apply.
- Non-shrinking

TYPICAL USES

The FCGTM is a high performance material designed for grouting over versatile range of applications. Typical uses include:

- Machinery Base Plates
- wind turbine tower bases
- Centrifugal compressors
- Crane rails
- Crusher – Ball Mills
- structure that subjected to high vibration, torque and impact

TECHNICAL DATA

	Unit	FCG TM
Density	kg/L	~2.28
Compressive Strength (28 days)	N/mm ²	88.0
Tensile Strength (28 days)	N/mm ²	20.0
Pot Life	min	25
Initial Set @ 27°F	hr.	5-8
Final Set @ 27°F	hr.	6-9
Mixing Ratio (Parts A:B) by Weight	-	water per powder = 16 % by weight

INSTALLATION PROCEDURE

PREPARATION OF SUBSTRATE

All surfaces to be in contact with FCGTM product shall be free of oil, grease, laitance and other contaminants. Concrete must be clean, sound, dry and roughened to ensure a good bond. Formwork shall be constructed of rigid non-absorbent materials, securely anchored, liquid-tight and strong enough to resist forces developed during grout placement. The clearance between formwork and baseplate shall be sufficient to allow for a head box. The clearance for remaining sides shall be 25-50 mm. Areas where bond is not desired must be treated with paste wax or polyethylene. Isolation joints may be necessary depending on pour dimensions.

MIXING

Place measured quantity of clean potable water (depend on the required consistency) in a clean mixing container and add FCGTM slowly. Mix with a slow speed mixer for 3 minutes to a smooth, stiff consistency.

APPLICATION

FCGTM product may be poured into place. Note that all grout shall be placed from one side to the other, maintaining contact with the bottom of the baseplate at all times.

STORAGE & SHELF LIFE

- Stored in dry condition between +10 °C - +30 °C
- 9 months from the date of

manufacture in original unopened sealed bag when stored in dry conditions; high relative humidity will reduce shelf life.

CAUTION

This product may cause skin irritation. Do not inhale vapors. Provide adequate ventilation. Protect against contact with skin and eyes. Wear rubber gloves, long sleeve shirt, goggles with side shields. In case of contact with eyes, flush repeatedly with water and contact a physician. Areas of skin contact should be promptly washed with soap and water. Do not take internally.

CTech-LLC[®]

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IMPORTANT NOTE:

Before using any CTech-LLC[®] product, the user must review the most recent version of the product's technical data sheet, material safety data sheet and other applicable documents, available at www.ctech-llc.com.

WARANTY:

CTech-LLC[®] warrants its products to be free from manufacturing defects. Buyer determines suitability of product for use and assumes all risks. Buyer's sole remedy shall be limited to replacement of product. Any claim for breach of this warranty must be brought within one month of the date of purchase. CTech-LLC[®] shall not be liable for any consequential or special damages of any kind, resulting from any claim or breach of warranty, breach of contract, negligence or any legal theory. The Buyer, by accepting the products described herein, agrees to be responsible for thoroughly testing any application to determine its suitability before utilizing.