

# TechnoGrout™FC

Fiber Reinforced Cementitious Grout

TECHNOPOL  
مقاوم سازی تکنوپل

## PRODUCT DESCRIPTION

TechnoGrout™FC is a Cementitious grout reinforced with Fibers to provide excellent impact and vibration resistance. Formulated from a blend of high strength Portland cement, graded and micro Fiber Aggregates, TechnoGrout™FC has improved mechanical properties and durability compared to conventional cementitious grout.



Buildings  
Structures



Transportation  
Infrastructure



Water &  
Wastewater



Oil, Gas &  
Industrial



Waterfront  
Structures



Industrial  
Facilities

## TECHNICAL DATA (DRY FIBER)

	Unit	TechnoGrout™FC
Density	kg/l	2.3
Compressive Strength (28 days)	MPa	88
Tensile Strength (28 days)	MPa	20
Pot Life	min	25
Initial Set	hr.	5-8
Final Set	hr.	6-9
Mixing Ratio (Parts A: B) by Weight	-	water per powder = 16% by weight

## 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
- Pump able
- Non-shrinking

## TYPICAL USES

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

## MIXING

Place measured quantity of clean potable water (depend on the required consistency) in a clean mixing container add FCG

and TM slowly. Mix with a slow speed mixer for 3 minutes to a smooth, stiff consistency.

## INSTALLATION PROCEDURE

### PREPARATION OF SUBSTRATE

All surfaces to be in contact with TechnoGrout™FC 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 for dimensions.

### APPLICATION

TechnoGrout™FC 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



#### 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.

#### FAIRST AID

##### *Skin*

Wash fibers off skin with water and soap. If fibers are embedded in the skin, remove with tweezers. Discard clothing that may contain embedded fibers. Seek medical advice if exposure results in adverse effects.

##### *Eyes*

Immediately flush with a continuous water stream for at least 20 minutes. Washing immediately after exposure is expected to be effective in preventing damage to the eyes. Seek medical advice.

##### *Inhalation*

If there is inhalation exposure to the fibers of this product, remove source of exposure and move victim to fresh air. If victim is not breathing, give artificial respiration. If there is breathing difficulty, give oxygen. Seek medical advice for any respiratory problems.

##### *Ingestion*

Ingestion is not a likely means of exposure for this product. If ingestion does occur, do not induce vomiting. Give nothing by mouth if victim is unconscious. Seek medical advice.

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