

TechnoCrete™ LFC

Pourable Polymer Modified Traffic Bearing Repair Mortar

TECHNOPOL

مقاوم سازي تکنوپل

PRODUCT DESCRIPTION

TechnoCrete™ LFC is a flow able, high early strength, non-shrinkable, non-segregating and cementitious repair mortar which is compound with a high adhesion to steel and concrete. TechnoCrete™ LFC can be used to repair concrete and reinforced concrete structures by pouring to a thickness of 10 to 100 mm (or more, if coarse aggregate is added) to obtain high compressive and tensile strength.



Buildings
Structures



Transportation
Infrastructure



Water &
Wastewater



Oil, Gas &
Industrial



Waterfront
Structures



Industrial
Facilities

TECHNICAL DATA

Compressive Strength	MPa	min
2 hrs.		25
4 hrs.		35
1 day		45
28 days		70
Tensile Strength	MPa	min
2 hrs.		3.5
4 hrs.		4.5
1 day		6.5
28 days		9

PHYSICAL PROPERTIES

Color		Gray
Maximum Size of a Filler	mm	2.6
Minimum Layer Thickness	mm	10

ADVANTAGES

- Perfect bonding to the concrete and steel
- High strength
- Resistant to freeze-thaw cycle
- Fast-hardening mortar
- Higher thickness possible
- Very good reinforcement protection
- Excellent adhesion and excellent durability

TYPICAL USES

- Repair of the reinforced concrete elements
- Repair of the underground structures
- concrete pavements of roads, airfields, parking areas and bridges
- Reinforced structures - girders, supports, bridge plates
- Grouting of metal constructions

- Hydraulic structures and water transport facilities
- Fixing metal elements in concrete foundation
- Structural and non-structural repairs of high strength concrete elements

MIXING

- Pour water at the rate of 3.45 liters of water per one 30 kg TechnoCrete™ LFC bag.
- Add TechnoCrete™ LFC continuously into the mixer.
- Continue mixing for at least 4 minutes

INSTALLATION PROCEDURE

PREPARATION OF SUBSTRATE

Before application of TechnoCrete™ LFC, cut the damaged area edges perpendicular to the repair surface to a minimum depth of 10 mm. Remove rust from rebars. If the structure under repair is used in environments aggressive to concrete and steel

APPLICATION

- Placed mix ramming is advisable
- Surface of the product laid on the horizontal surface may be smoothed by a grater
- Pour the prepared TechnoCrete™ LFC compound continuously, without



vibration. Pouring shall be arranged from one side to prevent air entrapment

HANDLING

Approved personal protection equipment should be worn at all times. for example, do not eat, smoke or drink while working and wash hands when taking a break or when the job is completed. Particle mask is recommended for possible airborne particles. Gloves are recommended when handling mortar to avoid skin irritation. Safety glasses are recommended to prevent eye irritation. Wear chemical resistant clothing/gloves/goggles. Ventilate area. In absence of adequate ventilation, use properly fitted respirator.

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.

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