

TechnoCrete™LC

Low Viscosity Polymer Repair Mortar

TECHNOPOL
مقاوم سازی تکنوپل

Ref: TechnoCrete™LC | TDS-EN

PRODUCT DESCRIPTION

TechnoCrete™LC is a non-shrinkage, self-leveling and no segregating product can be used as a wear surface on interior and elevated exterior areas where worn concrete is an issue. TechnoCrete™LC can be used to repair concrete and reinforced concrete structures by pouring to a thickness of 10 to 100 mm.



Buildings
Structures



Transportation
Infrastructure



Water &
Wastewater



Oil, Gas &
Industrial



Waterfront
Structures



Industrial
Facilities

TECHNICAL DATA

	Unit	TechnoCrete™LC
Compressive Strength	Min	MPa
2 hrs		25
4 hrs		35
1 day		45
28 days		70
Tensile Strength		MPa
2 hrs		3.5
4 hrs		4.5
1 day		6
28 days		9

PHYSICAL PROPERTIES

Maximum size of filler	mm	2.5
Minimum layer thickness	mm	10
Color		Gray

ADVANTAGES

- Easy to mix and install
- Natural-concrete gray in color
- Can be used in exterior non-freeze/thaw areas that are elevated
- Traffic-bearing
- Low shrinkage
- Thixotropic repair mortar
- Fast hardening mortar
- Excellent application properties
- Very good reinforcement protection
- Higher thickness possible

TYPICAL USES

- Interior and exterior use
- Warehouse floors

- As a wear topping on flat concrete roof decks
- Showrooms, lobbies and consistently wet areas
- Grouting of metal construction
- Optimizing traffic management

HANDLING

Approved personal protection equipment should be worn at all times. 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.

INSTALLATION PROCEDURE

PREPARATION OF SUBSTRATE

Thoroughly clean the surface of any substance that could interfere with the bond of the installation material, including dirt, paint, tar, asphalt, wax, oil, grease, latex compounds, sealers, curing compounds, form release agents, laitance, loose toppings, foreign substances and adhesive residue.

Ensure that the substrate and ambient room temperatures are between 4°C and 35°C before application.



Fill deep areas, holes and cracks with appropriate concrete restoration materials.

APPLICATION

Pour the prepared TechnoCrete™LC compound continuously, without vibration. Pouring shall be arranged from one side to prevent air entrapment. Placed mixed ramming is advisable. Surface of the product laid on the horizontal surface maybe smoothened by a grater.

Mixing

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

LIMITATIONS

- Do not add other additives, water or cements to TechnoCrete™LC.
- Do not use solvent-based curing compounds.
- Air, material and substrate temperatures during application must be between 4°C and 35°C.

CAUTION

Cure with wet burlap or polyethylene sheet during the first 4 hours of curing. Alternately, apply a water-based curing compound conforming to ASTM C309.

FAIRST AID

In case of skin contact, wash thoroughly with soap and water. For eye contact, flush immediately with plenty of water; contact physician immediately. For respiratory problems, remove to fresh air. Wash clothing before reuse.

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