

TechnoCrete™ HC

High Viscosity Polymer Repair Mortar

TECHNOPOL

مقاوم سازی تکنوپل

PRODUCT DESCRIPTION

TechnoCrete™ HC is a two-component, shrinkage-compensated, polymer-modified, fast-setting cementitious mortar with a corrosion inhibitor which allows it to be used for vertical, horizontal and overhead application for large and small repairs.



Buildings
Structures



Transportation
Infrastructure



Water &
Wastewater



Oil, Gas &
Industrial



Waterfront
Structures



Industrial
Facilities

TECHNICAL DATA

	Unit	TechnoCrete™ HC
Tensile Strength	MPa	5.50
Compressive Strength	Mpa	29
Flexural Strength	MPa	8.1
Adhesion	MPa	>2.5

PHYSICAL PROPERTIES

Initial Set	@ 70°C	1 hr.
Final Set	@ 70°C	4 hrs.
Mixing Ratio	Part A:B	5:1

ADVANTAGES

- Two-component
- Can be applied using a trowel
- Polymer-modified for added durability
- Features high early strength in 1 day
- Can be placed from 6 mm to 5 cm
- Thixotropic repair mortar
- Easy to use
- Excellent workability

TYPICAL USES

- Interior and exterior use
- For vertical and overhead structural concrete repairs and restoration
- For repairing and resurfacing concrete structures such as tunnels, bridges, overpasses, retaining walls, pools, fountains, beams, building facades, ceilings, balconies, ramps, walkways and more.

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

Concrete surface must be clean, sound and free of loose particles, efflorescence, paints, tar, grease, asphaltic materials, bond breakers, curing compounds, wax, and any foreign substance or any conditions that may affect proper bonding of the product and result in cracking, discoloration or changes in overall product performance.

APPLICATION

Before application, ensure that prepared concrete is SSD.

Apply with a trowel or a screed, with or without formwork (screed rail), on a horizontal surface.

Mixing

Before product use, take appropriate safety precautions. Refer to the Safety Data Sheet for details.

1- Into a clean mixing container, pour



- 3/4 of the required amount of cool, additive (Part B).
- 2- Slowly add TechnoCrete™HC powder (Part A) to the additive (Part B) while mixing, using a low-speed drill and an appropriate mixing paddle.
 - 3- Add the remaining 1/4 of additive (Part B) to achieve the desired consistency.
 - 4- Mix for up to 3 minutes, scraping the sides to mix all of the powder, and remix to a smooth, homogenous consistency.

LIMITATIONS

- Do not add other additives, water or cements to TechnoCrete™HC.
- Do not use solvent-based curing compounds.
- Only use between 7°C and 35°C. Note that cool, damp and humid conditions will slow the rate of hydration and will cause the mortar to retain a higher moisture content for a longer period of time.

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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