

TechnoCrete™SE

Epoxy Repairing Mortar

PRODUCT DESCRIPTION

TechnoCrete™SE is a high strength, trowel applied, three-component epoxy resin mortar, designed for rapid and permanent repairs to concrete and masonry surfaces. TechnoCrete™SE is a blend of epoxy resin, polyamine curing agent, graded aggregate and color pigments. The mixed material is applied to a suitably prepared surface, and quickly cures to form a durable, abrasion and chemical resistant repair.



Buildings
Structures



Transportation
Infrastructure



Water &
Wastewater



Oil, Gas &
Industrial



Waterfront
Structures



Industrial
Facilities

TECHNICAL DATA (DRY FIBER)

	Unit	TechnoCrete™SE
Compressive Strength	MPa	≥10 N/mm ²
Tensile Adhesion Strength	MPa	≥0.8 N/mm ²
Consumption		2kg will cover approx.0.75m ² @ 2mm thickness
Substrate Temperature	-	+5°C min. / +35°C max.

PHYSICAL PROPERTIES

Chemical base	Epoxy resin	
Color	Grey paste	
Layer Thickness	mm	10

ADVANTAGES

- Pre-packed units – ready to use
- Fast curing characteristics
- Impact and abrasion resistant
- Frost resistant and impervious to water
- Excellent mechanical properties
- Unaffected by a wide range of acids, and industrial chemicals
- Negligible shrinkage
- High bond strength – no primer required
- Cures under damp, cool conditions
- Excellent chemical resistance

TYPICAL USES

- Bedding pre-cast concrete beams
- Bridges
- Roads
- Industrial structure
- Repairs to spalled or damaged concrete

- floor repairs
- bedding pre-cast concrete beams

MIXING

TechnoCrete™SE is supplied as a three-component pack. Each component is pre-weighed and ready to mix.

Each pack contains the correct proportion of base and hardener. No attempt should be made to mix only a portion of the pack. Units can be mixed thoroughly by trowel, for larger quantities a suitable mechanical mixer must be used.

INSTALLATION PROCEDURE

PREPARATION OF SUBSTRATE

Remove all laitance, spalled concrete, grease, oil, dust, and other contaminants by scrubbing or bush hammering, to provide a sound, clean, substrate. Any exposed reinforcing steel shall be fully exposed by cutting out around its full circumference, and cleaned by abrading or grit blasting to remove rust, scale, etc.

APPLICATION

Once mixed, TechnoCrete™SE Epoxy Repair Mortar can be troweled directly onto the surface without the need for priming. On porous substrates, priming may be required. Apply TechnoCrete™SE and compact into place, trowel maybe moistened with a solvent based wipe to



achieve a smooth finish and to stop the material sticking to the trowel.

LIMITATIONS

- Do not apply to wet or uncured concrete surfaces.
- Do not apply at temperatures of 3°C or less.

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.

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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