

TAMCRETE® ERM75

Two-Component, Thixotropic Epoxy Adhesive and Structural Repair Mortar

About the Product

TAMCRETE® ERM75 is a two-component, solvent-free, moisture-tolerant, thixotropic, high-strength epoxy adhesive, anchoring and structural repair mortar containing epoxy resin and special fillers.

Complies with EN 1504-3 and EN 1504-6 standards.

EN 1504-6: Product for anchoring of reinforcing steel bar

Areas of Application

- Anchoring and installation applications on concrete and stone surfaces
- Reinforcement anchoring and fixing
- Filling and injection of wide cracks
- Structural concrete repairs
- Steel-to-concrete connection details
- Bonding expansion joint tapes

Advantages

- Easy to prepare and apply
- Provides high mechanical strength
- Exhibits excellent adhesion to various substrates
- Thixotropic consistency, does not sag
- Cures without shrinkage
- Provides high early and ultimate strength
- High abrasion resistance
- Impermeable to water and water vapor
- Resistant to chemicals
- Moisture tolerant
- Excellent adhesion to concrete and metal
- Solvent-free

Technical Specifications

General Information	
Material composition	Epoxy resin and special fillers
Appearance	Grey-colored, paste consistency
Density (mixed)	~1.77 kg/lt
Performance Data (EN 1504-3 / EN 1504-6)	
Compressive strength (EN 12190)	≥ 30 N/mm ² (1 day), ≥ 75 N/mm ² (7 days)
Flexural strength (EN 196-1)	≥ 17 N/mm ² (1 day), ≥ 25 N/mm ² (7 days)
Bond strength (EN 1542)	To concrete ≥ 3.0 N/mm ² , to metal ≥ 3.5 N/mm ²
Pull-out resistance (EN 1881)	≤ 0.6 mm displacement (under 75 kN load)

Application Data	
Application temperature	+10°C / +30°C
Service temperature	-15°C / +90°C
Mixing ratio	A: 3.75 kg / B: 1.25 kg
Pot life	~40 min
Application thickness	2–30 mm (single layer)
Initial hardening	~12 hours
Full cure	7 days
Consumption	~1.7 kg/m ² (1 mm thickness)
Safety Information	
Hazardous substances	Refer to SDS

The stated technical values are obtained at +23°C ambient temperature and 50% relative humidity conditions. High temperatures shorten the time, low temperatures extend it.

Application Instructions

Surface Preparation

The application surface must be sound, clean, dry and load-bearing. The surface must be free from oil, grease, paint, rust and similar contaminants that may reduce adhesion. Concrete surfaces must have completed a minimum curing period of 28 days. If there is active water leakage on the surface, it should be stopped using a suitable fast-setting repair mortar. Metal surfaces should be grit blasted, thoroughly cleaned with a vacuum cleaner and made completely free from rust. Dew point conditions should be avoided during application.

Mixing

TAMCRETE® ERM75 is packaged as a two-component system. Components A and B should be mixed with a mixer operating at 400–600 rpm for at least 3 minutes until a homogeneous mixture is obtained. To reduce entrapped air bubbles, continue mixing for an additional 1 minute at low speed. Under no circumstances should water or any other material be added to the mixture.

Application

During application, the substrate temperature must be at least 3°C above the dew point. The prepared material can be applied using a trowel, spatula or suitable equipment. For anchoring applications, holes should be cleaned and prepared with the appropriate diameter. Bonded elements must be fixed in position until the material has hardened. Only the amount of product that can be used within the pot life should be mixed.

Cleaning of Tools

All equipment used during application must be cleaned with suitable solvents or cleaners before the material hardens. Once hardened, the material can only be removed mechanically.

Storage Conditions and Shelf Life

Store in the original, unopened packaging in a cool, dry place. Under proper storage conditions, the product has a shelf life of 18 months from the date of manufacture.

Safety Precautions

During application, suitable work clothing, protective gloves, goggles, and a mask should be worn in accordance with occupational health and safety requirements. Due to the irritant effects of the uncured material, the components must not come into contact with skin or eyes; in case of contact, rinse immediately with plenty of water and soap, and seek medical attention immediately in case of ingestion. Food products must not be kept in the areas where the material is applied. Store out of reach of children. Refer to the Safety Data Sheet for further information.

Liability

Our company is responsible only for the quality of the product. Any use of the product beyond the scope of written technical recommendations, including incorrect application or use under unsuitable conditions, is the sole responsibility of the user. For more detailed technical information, please refer to the product catalogue or contact our authorized representatives.

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