

TAMCRETE® CRM RAPID

Fast-Setting Cement Based Repair Mortar

About the Product

TAMCRETE® CRM RAPID is a repair and waterplug material containing special cement, polymers and mineral aggregates. When mixed with water, it sets rapidly and is used to stop active water leakages.

Complies with EN 1504-3 standard as Class R2.

R2: Non-structural repair mortar

Areas of Application

- Stopping active water leakages
- Repair of static cracks in concrete
- Joint and corner details prior to waterproofing applications
- Sealing pipe, cable and service penetration openings
- Filling of tie-rod holes
- Rapid repair works on concrete surfaces
- Fixing anchors and installation elements

Advantages

- Stops active water leakages very quickly
- Single-component and easy to prepare with water
- Very rapid setting (within minutes)
- Easy to apply
- Expands at the application point to provide watertight sealing
- Provides high adhesion and strength
- Can be covered in a short time (plaster, ceramic tiles, waterproofing systems)
- Does not damage steel reinforcement

Technical Specifications

General Information	
Material composition	Special cement, mineral fillers and special chemical additives
Appearance	Grey powder
Density	~1.35 kg/lit
Max. particle size	≤ 1 mm
Performance Data (EN 1504-3)	
Compressive strength (EN 12190)	≥ 7 MPa (30 min), ≥ 10 MPa (24 hours), ≥ 30 MPa (28 days)
Flexural strength (EN 196-1)	≥ 9 N/mm ²
Modulus of elasticity (EN 13412)	≥ 20 GPa
Bond strength to concrete (EN 1542)	≥ 2.0 N/mm ²
Capillary water absorption (EN 13057)	≤ 0.5 kg/m ² ·h ^{0.5}

Chloride ion content (EN 1015-17)	≤ 0.05%
Carbonation resistance (EN 13295)	Not inferior to control concrete
Application Data	
Application temperature	-10°C / +35°C
Mixing ratio	0.24–0.28 lt water / 1 kg powder
Working time	~60–90 seconds
Final setting time	~2–3 minutes
Application thickness	10–40 mm
Ready for service	~24 hours
Consumption	Depends on the application
Safety Information	
Reaction to fire class (EN 13501-1)	A1
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, dry, clean, dust-free and load-bearing. The surface must be free from oil, grease, paint, rust, paraffin and similar contaminants that may adversely affect adhesion. Smooth surfaces should be roughened mechanically. The edges of repair areas should be prepared at right angles, reinforcing steel must be cleaned of rust, and cracks and voids should be opened to a minimum width and depth of 2 cm. Highly absorbent surfaces should be saturated with water before application, but no standing water should remain on the surface.

Mixing

TAMCRETE® CRM RAPID is placed into a clean container, and immediately before application, the amount of water specified in the technical table is added. The material is then rapidly mixed by hand until a putty-like consistency is obtained. The mixing time should not exceed 30 seconds. As the prepared material sets within a very short period of time, it must be applied promptly. Water must not be added to the mixture that has started to set.

Application

To stop active water leakage, the prepared material should be pressed manually into the crack and held in place for approximately 60 seconds. If leakage continues from different points, the same procedure should be repeated. For normal repair applications, the material should be applied with a trowel and the surface should be leveled.

Cleaning of Tools

All equipment used during application must be cleaned with water before it dries. 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 6 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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