Technical Datasheet

# RAPICRET

## Rapid-setting, cementitious repair mortar

### Description

RAPICRET is a pre-mixed, rapid-setting, polymer-modified, cementitious repair mortar, offering:

- Strong adhesion to the substrate
- Superior workability
- Reduced water permeability

Certified according to EN 1504-3 and classified as a PCC R3 mortar for concrete repairs. Certificate No.: 2032-CPR 10.11. CE marked.

### Fields of application

RAPICRET is suitable for rapid repair of concrete elements, fixing, anchoring, patching of cavities or holes, forming fillets, etc., and generally wherever high strength and fast application are required. RAPICRET may be applied to floors, walls, or ceilings.

### Technical data

| | |
|---|---|
| Form: | cementitious powder |
| Color: | grey |
| Grain size: | up to 1.3 mm |
| Water demand: | 4.60 l/25 kg bag |
| Bulk density of dry mortar: | 1.50 ± 0.10 kg/l |
| Bulk density of fresh mortar: | 1.95 ± 0.10 kg/l |
| Compressive strength | |
| • after 24 hours: | > 8.00 N/mm$^2$ |
| • after 7 days: | > 15.00 N/mm$^2$ |
| • after 28 days: | > 28.00 N/mm$^2$ |
| Flexural strength: | > 5.00 N/mm$^2$ |
| Elastic modulus: | ≥ 15 GPa |
| Carbonation resistance: | Pass |
| Chloride ion content: | 0.00% |
| Adhesion: | ≥ 1.60 N/mm$^2$ |
| Thermal compatibility Part 1 (50 freeze-thaw cycles): | ≥ 1.50 N/mm$^2$ |
| Capillary absorption | 0.48 kg·m$^{-2}$·h$^{-0.5}$ |
| Reaction to fire | Euroclass A1 |
| Pot life: | 15 ± 2 min at +20°C |

### Directions for use

**1. Substrate preparation**
The substrate must be clean, free of dust, oil, or grease, loose materials, etc. and should be thoroughly dampened before application of RAPICRET.

**2. Application**
RAPICRET is slowly added to the water (the mixing ratio of RAPICRET:water is 3.6:1 by volume) under continuous stirring, until a viscous, slump-free mass is formed, suitable for patching or fixing works. Mixing time should not exceed 1 min. It is recommended to mix a small quantity every time because of the short working time (about 15 min. at +20°C). RAPICRET is applied in layers not thicker than 3 cm.

### Consumption

Approx. 17.5 kg/m$^2$/cm of layer thickness.

### Packaging

RAPICRET is supplied in 5 kg and 25 kg bags.

### Shelf life – Storage

- 25 kg paper bags:
  12 months from production date.
- 5 kg plastic bags:
  18 months from production date.

The above shelf life is valid as long as the product is stored in its original, unopened packaging, in places protected from moisture and frost.

# RAPICRET

## Remarks

- Application temperature should be between +5°C and +30°C.
- Material that has started to harden should not be re-softened with water.
- At high temperatures, it is recommended to mix with cold water to avoid rapid setting.
- At low temperatures, it is recommended to mix with warm water to accelerate setting.
- RAPICRET contains cement that reacts with water forming alkaline solutions, thus is classified as irritant.
- Please consult the directions for safe use and precautions written on the packaging before use.

CE

**2032**

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**2032-CPR-10.11**

**EN 1504-3**

Concrete repair product for structural repair
PCC mortar (based on hydraulic cement, polymer modified)

**DoP No.: RAPICRET/1216-03**

Compressive strength: class R3

Chloride ion content: ≤ 0.05%

Adhesive Bond: ≥ 1.5 MPa

Carbonation resistance: Pass

Elastic modulus: ≥ 15 GPa

Thermal compatibility part 1: ≥ 1.5 MPa

Capillary absorption: ≤ 0.5 $kg \cdot m^{-2} \cdot h^{-0.5}$

Dangerous substances: comply with 5.4

Reaction to fire: Euroclass A1

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