

RAPICRET

Fast-setting patching mortar

Description

RAPICRET is a pre-mixed, cement-based, fast-setting repairing mortar, offering:

- Very good adhesion to the substrate.
- Superior workability.
- Reduced water permeability.

It is classified as a PCC R3 mortar for concrete repairs, according to EN 1504-3. Certificate Nr. 2032-CPR 10.11.

Fields of application

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

Technical data

Form:	cementitious powder
Color:	grey
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, loose materials etc. and should be thoroughly dampened before the application of RAPICRET.

2. Application

RAPICRET is gradually added into the water (the mixing ratio of RAPICRET:water is 3.6:1 by volume) under continuous stirring, until a tight, no-slump putty is formed, suitable for patching or fixing work. Mixing time should not exceed 1min. 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/m²/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.

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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.

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.
- Consult the directions for safe use and precautions written on the package.



2032

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DoP No.: RAPICRET/1216-03

EN 1504-3

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

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·m⁻²·h^{-0.5}

Dangerous substances: comply with 5.4

Reaction to fire: Euroclass A1

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