



EGECRETE

CreteRep 420

High Strength, Cement Based, Polymer and Fiber Reinforced Repair Mortar

INFORMATION

CreteRep 420 is a cement-based thin repair mortar, reinforced with polymer additives and various chemicals, formulated to be used in the repair and plastering of structural elements such as exposed concrete and prefabricated concrete.

It complies with EN 1504-3 (Products and systems for the protection and repair of concrete structures - Definitions, requirements, quality control and conformity assessment - Part 3: Structural and non-structural repair) and is in the R2 (28-day strength ≥ 15 N/mm²) standard

APPLICATION

- In the repair and plastering of gross concrete surfaces,
- In the repair of broken and impacted prefabricated concrete elements,
- Repair of corners and edges,
- On aerated concrete, brick and briquette,
- It is used to obtain a smooth substrate before laying tiles and ceramics.

ADVANTAGES

- It is polymer added.
- It becomes ready to use by mixing with water.
- Water and frost resistant
- It can be applied easily.

TECHNICAL INFORMATION

The information below has been determined under laboratory conditions of 23 ° C and 50% relative humidity.

Features	Results
Colour	Grey
Water Ratio	5,5 L / 25 kg
Setting Time For Concrete	2,5 – 4,5 hour
Compressive strength (TS EN 12190)	7. Day : >10 N/mm ² 28. Day : >15 N/mm ²
Tensile strength in bending	4,5 N/mm ²
Adhesion strength	28. Day : >1,5 N/mm ²
Water absorption feature	< 5 kg/ m ²
Rest Time	5 minute
Application temperature	5 - 35°C

PACKAGING

CreteRep 420 is available in 25 kg kraft bags.

SHELF LIFE

Shelf life is 6 months when stored in its unopened original package, in a cool and dry environment protected from frost. Opened packages should be kept tightly closed and used within 1 week after opening.

DOSAGE

- For 1 mm thickness: 1,750 kg/m²

APPLICATION INSTRUCTIONS

Surface Preparation: The surface to be repaired must be sound and any foreign matter that may affect performance such as oil, grease, paraffin, paint, bitumen and dust that will prevent adhesion to the surface and all loose parts must be cleaned. If the application surface is very absorbent or its temperature is above 25°C, the surface should be moistened.

Preparation of Mortar: Appropriate amount of water is poured into a clean mixing bowl. While CreteRep 420 is added into the water slowly, it is mixed with a 400-600 rpm mixer. The mixture is mixed for about 3-5 minutes until it is completely homogeneous and lump-free and rested for 30 seconds. Then it is mixed again for 1 minute to make it ready for application. The use time of the prepared mortar is approximately 1 hour.

Application of Mortar: The prepared mixture is applied to the surface with a trowel. It is corrected to the desired thickness with a trowel. After the first setting of the mortar, the smoothing process is completed by polishing with a trowel.

PRECAUTIONS / LIMITATIONS

- **CreteRep 420** applied at 23°C reaches its final strength after 14 days. Before this period, it is not recommended to apply topcoat material on it.
- Care should be taken to ensure that the application temperature is between (+5°C) – (+35°C).
- The newly applied product should not be exposed to rain, snow and frost for 24 hours. It should be applied in dry weather.
- In cases where the floor temperature exceeds 25°C, the floor should be moistened.
- In any case, consult the Material Safety Data Sheet before use.

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