



EGECRETE

CreteRep 540

High Strength, Cement Based, Polymer Reinforced Repair Mortar

INFORMATION

CreteRep 540 is a cement-based, polymer-reinforced, special and high-strength repair and surface smoothing mortar containing silica fume.

It complies with EN 1504-3 (Products and systems for the protection and repair of concrete structures - Descriptions, requirements, quality control and conformity assessment - Part 3: Structural and non-structural repair) and is in the R3 (28-day strength ≥ 25 N/mm²) standard .

APPLICATION

- Repairing and leveling the surface defects of concrete elements,
- To obtain a smooth surface under epoxy paints in industrial facilities,
- In obtaining an impermeable and solid layer in exposed concrete,
- In smoothing concrete surfaces before waterproofing, in surface leveling of repaired areas with structural repair mortars, in the repair of wall and ceiling plasters,
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- It is used for surface leveling of concrete elements with surface defects.

ADVANTAGES

- It is mixed with water only, easy to apply, in paste form.
- It provides a smooth surface finish.
- It can be applied easily and without cracks on large surfaces.
- It shows high thixotropic properties.
- It is waterproof.
- Resistant to freeze-thaw cycle.
- Thanks to its white color, it fits perfectly under paint.
- Provides high adherence to concrete and plastered surfaces.
- Does not shrink.

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	0,5 – 4,0 Hour
Compressive strength (TS EN 12190)	7. Day : >10 N/mm ² 28. Day : >20 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 540 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

- To obtain a thickness of 1 mm, approximately 1.72 kg/m² of powder product should be used.

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 310 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

- Care should be taken to ensure that the application temperature is between (+5°C) – (+30°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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