

CONREPA 420

Cement Based, Repair Mortar and Finishing Coat

Technical Data Sheet

Description

CONREPA 420 is cement based, one component, polymer and fiber modified repair mortar for finishing the concrete surfaces.

Fields of Application

- Repairing and finishing the concrete surfaces,
- Repairing and plastering exposed concrete,
- Repairing and plastering ceiling and walls,
- Providing smooth, sound and waterproof layer under paintings, on concrete surfaces under epoxy and PU coatings in industrial plants and under waterproofing systems.

Features and Benefits

- Mixed with only water and can be applied easily.
- Provides smooth finish. ▪ Has high stability.
- Perfect bonding to the concrete substrates.
- Does not sag due to the thixotropic behavior.
- Resistant to water and weather conditions.

Technical Data

Content: Mineral fillers, polymer modified special cement

Color: Grey

Mixing Ratio: 25 kg CONREPA420 max. 4,75-5 L water

Mixture Density : 2,25±0,1 g/cm³

Adhesion Strength (Concrete): >1,0 N/mm² (28 days) (TS EN 1542)

Compressive Strength: >20 N/mm² (1 day) (TS EN 196) >35 N/mm² (7 days) >40 N/mm² (28 days)

Flexural Strength: >7 N/mm² (28 days) (TS EN 1542)

Application Temperature: +5°C to 30°C

Application Tools: Trowel

Pot Life: 45 minutes

Curing Time:

Fully Curing: 28 days

HS Code: 3214.10.90.00.00

Application Procedure

Preparation of Substrate

Application surface must be dry, clean and clean off materials which prevent bonding, such as dust, oil, rust and remove loose pieces. If there is a water leakage it must be drained or properly plugged. Concrete surfaces must be saturated with water before application. Defects up to 4 cm depth should be repaired with CONREPA 410.

Application Method

25 kg CONREPA 420 is mixed with 4,75 - 5,0 liters water under low speed mixer for 3-4 minutes until obtaining homogenous mixture. Mixture should be applied in 30 minutes at 20°C. CONREPA 420 is applied with a trowel as 1-5 mm thickness. If required more smooth finish, water should be sprayed onto the mortar and the surface should be finished with using steel or wooden trowel.

Consumption

For 1 mm thickness approximately 1,70 kg/m² powder is required. Recommended application thickness is min. 1 mm / max. 5 mm.

Packaging: 25 kg kraft bag

Shelf Life: 12 months in original, unopened package.

Storage: Store in dry area between +5°C and +35°C. Protect from heat, freezing and direct sunlight.

Cleanup Information: Clean tools and equipment with water immediately after use. Dried material can only be removed mechanically.

Cautions / Limitations

- Application surface must be protected from the rain, wind, frost etc. during first 24-48 hours after finishing repair.
- Do not use curing material.
- Prepared repair mortar must be applied within 45

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minutes at 20°C, this time is 20-25 minutes at 30°C. ▪ It may be harmful with skin contact. ▪ Do not apply in freezing conditions or during precipitation. ▪ Protect applied materials from rain, freezing, foot traffic and continuous high humidity until completely dry. ▪ Do not use when air and surface temperatures are below +5°C and above +35°C.

Health and Safety

Warning! Cause eye and skin irritation. If eye or skin contact, get immediate medical attention. If swallowed, do not induce vomiting. Call a physician or poison control center. Never give anything by mouth to an unconscious person.

Wash hands thoroughly after handling. Wear protective clothing, gloves, eye and face protection. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse. Dispose of unused, contents, container and other contaminated wastes in accordance with local, state, federal and provincial regulations. Keep container closed when not in use. Keep out of the reach of children.

Limited Warranty: This product is subject to a written limited warranty which can be obtained free of charge from GRADA Company. Please contact with technical service department for further information and support.

