

High strength, thixotropic epoxy patching and bonding paste

PRODUCT

weberep epo 412 CRY plus is a two component, putty like consistency, moisture tolerant epoxy based used for patch repairs and bonding paste.

Weberep epo 412 CRY plus is solvent free and shows no shrinkage. It ensures a bonding that is waterproof and resistant to atmospheric corrosion in extreme climates.

SCOPE OF USE

weberep epo 412 CRY Plus is designed for application to minor imperfections in concrete surfaces. It is suitable for application from a feather-edge to 3 mm, and can be used in the following applications:

- Filling pinholes prior to overcoating with epoxy floor coatings as **weberfloor epobat** and **weberfloor epobark** 3mm.
- General re-profiling over small areas, up to 3 mm.
- Sealing of concrete surface cracks.
- Patching repair of concrete floors, walls and ceilings.
- Grouting dowels rebar and anchor bolts.
- Bonding of all construction materials (except plastic).

Advantages

- Cost effective - reduces usage of subsequent coatings.
- High performance - excellent chemical resistance, strong adhesion to concrete substrate.
- Easy to apply, solvent free 100 % solid content.
- Applied directly to concrete substrates, without the need of primer.

CHARACTERISTICS

Composition & Color	Part A: Resin (Off white) Part B: Hardener (Dark Grey) Mix A+B: Grey
Pot life at 25°C	55 ± 5
Setting time at 25°C	5 Hours
Density (kg/l)	1.65 ± 0.05
Overcoating time @ 25 °C	24 hrs

*Compressive strength ASTM C 579	7 days	70 MPa
*Bond Strength ASTM C 882	2 days 14 days	> 7 MPa > 10 MPa
*Flexural strength ASTM C 580	7 days	> 30 MPa

* Test done at lab condition and values subject to a variation of ± 10%



PACKAGING

Leb	Syria	Jordan	UAE	Qatar	Kuwait	KSA	Oman
1 kg	1 kg	1 kg	1 kg	1 kg	1 kg	1 kg	1 kg
6 kg	6 kg	6 kg	6 kg	6 kg	6 kg	6 kg	6 kg
15 kg	15 kg	15 kg	15 kg	15 kg	15 kg	15 kg	15 kg

APPLICABLE STANDARDS

weberep epo 412 CRY Plus is in compliance with ASTM C 881.

INSTRUCTIONS FOR USE

SUBSTRATE PREPARATION

All surfaces should be clean, sound, dry, and free from grease, laitance, oil and dust. Remove all loose material. All surfaces should be free from paint and any other substance that may prevent or reduce adhesion. The prepared surface must have an average "surface tensile adhesion strength" greater than 1.5 MPa. Moisture content should not exceed 5%.

PRODUCT PREPARATION

Part B (Hardener) must be pre-mixed using a low speed drill for 1 minute. Keep the drill paddle below the surface of the material to avoid entrapping air. Add Part B over Part A, mix the two parts for 2 - 3 minutes by an electric mixer with low rotation speed (< 300 rpm).

weberep epo 412 CRY Plus must be well mixed to ensure proper chemical reaction. After mixing, keep the mix to rest for 2min before the application.

Do not add solvent, water or thinner at any time during the mixing or the application.

PRODUCT APPLICATION

As patching mortar

Due to the easy workability of the product, a variety of instruments such as trowel, scraper, filling knife and squeegee can be used. **weberep epo 412 CRY Plus** can be overcoated with all epoxy coatings after a minimum curing period of 12 hours and maximum 48 hrs.

As bonding paste

The mixed **weberep epo 412 CRY Plus** should be applied to solid surfaces in an even film with a thickness depending on the required application. Care should be taken to position the bond surfaces correctly, as cured joints can only be broken down with difficulty.

Excess pressure to the joint is to be avoided, in order to prevent extrusion of the adhesive, but slight clamping and support will be necessary. Before leaving the adhesive to cure, any excess glue should be removed from the joint with a sharp knife. Solvent should not be used for this purpose, as it may remove adhesive from the joint.

CLEANING

After the application immediately remove the **weberep epo 412 CRY Plus** from tools and equipment using toluene or xylene.

CONSUMPTION

approx. 1.6 kg/m² at 1 mm thick.

STORAGE

12 months after manufacturing date in original and non-open packaging, under cover, in dry condition, away from humidity, protected from extreme temperatures and direct sunlight.

SAFETY PRECAUTIONS

Application should be done in a ventilated area away from any heat source. Wear protective gear for hands and eyes and avoid breathing of vapor. If mixed resin comes into contact with the skin, it should be promptly removed before hardening, followed by thoroughly washing the skin with soap and water. In case of heavy vapor inhalation, place affected person in an open-air area. In case of contact with eyes, wash thoroughly with clean water. If swallowed, do not induce vomiting. In all cases, seek medical attention. In case of fire, use CO₂ foam to extinguish. Tightly seal containers when not in use, store them away from heat and carefully dispose empty ones.

DISCLAIMER

While the company guarantees its products against defective materials, the use and application of these products are made without guarantee since the conditions of their application are beyond its control. It is recommended to verify with the company that the product is suitable for the intended use, and that this Data Sheet version is the latest one. The company may modify it without prior notice. Technical characteristics are listed for guidance only. For more information, please contact the company's office in your location.

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