

Two component epoxy patching and bonding paste

PRODUCT

weberep epo 412 CRY is a two component, medium viscosity, moisture tolerant epoxy paste used for patch repairs and for bonding fresh or hardened concrete to hardened concrete, including in segmental bridge constructions.

weberep epo 412 CRY 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 can be used in the following application:

- Patching repair of concrete floors, walls and ceilings
- Bonding fresh and hardened concrete to hardened concrete
- Bonding of segmental bridge precast elements
- Grouting dowels, rebar and anchor bolts
- Bonding of all construction materials (except plastic)
- Sealing surface of cracks

CHARACTERISTICS

Composition	Resin(white) Hardener (black)
Gel time at 20°C	> 60 min.
Curing at 20°C	1 day
Density (g/cm3) BS 1881 P-107	1.41 ± 0.05
Water absorption (%) at 24 hours ASTM D570	< 1%
VOC (USEPA Method 24) ASTMC 881 compliance	0.1g/l (less water) Type IV, V & VI, Grade 3, class C

*Compressive strength ASTM D 695-02	7 days	> 70 MPa
*Bond Strength ASTM C 882	2 days	> 7 MPa
	14 days	> 10 MPa

APPLICABLE STANDARDS

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

INSTRUCTIONS FOR USE

SUBSTRATE PREPARATION

All surfaces to be bonded must be sound and clean with no traces of contamination.

While **weberep epo 412 CRY** will bond to damp concrete, there should be no standing water. Best results are obtained on



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

dry concrete.

PRODUCT PREPARATION

Mix each component separately, then pour the hardener in the resin can and mix until a homogeneous mix is obtained. Mixing can be made manually with a trowel or a spatula, or preferably with a power mixer with low rotation speed (300 rpm).

Cleaning

Prior to curing, **weberep epo 412 CRY** may be removed from tools and equipment using toluen, xylene, lacquer thinners or MEK.

PRODUCT APPLICATION

Apply the product on the substrate so as to have a 1 mm thick bonding layer after assembling.

On very rough surfaces let the product penetrate all irregularities of the support. The bonding must be performed only when the product is tacky, i.e. between 10 min and 2 hrs after application of the product.

The allowed ambient temperature of application is between 5°C and 50°C.

If epoxy paint is to be applied on **weberep epo 412 CRY**, in this case make sure to apply the paint within 24 hours from the

application of **weberep epo 412 CRY**.

weberep epo 412 CRY can be applied for patch repairing up to a thickness of 3 mm in one layer and for filling cracks up to 2 mm width.

CONSUMPTION

1.5 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.

NOTE

The information included on this Technical Data Sheet is the sole property of SODAMCO Holding. The unauthorized disclosure, use, dissemination or copying (either whole or partial) of this data sheet or any information it contains, is prohibited and subject to legal pursuit.

PG:29