

# EUCOREP EP

## EPOXY BASED MORTAR FOR SEAMLESS PLINTHS AND REPAIR

### FIELD OF APPLICATION

EUCOREP EP is an epoxy based, fast-curing seamless plinths and repair mortar. It is an easy to model trowel mortar for fast and very durable repairs. Particularly suitable for seamless plinths and levelling out level differences. A repair is already chargeable after 6 hours (at +20°C).

- Repairs (vertically and horizontally)
- Smoothing out differences in level.
- Straight and hollow synthetic resin seamless plinths.
- Odour and dust free.
- Liquid-tight (after polishing and with a minimum thickness of 10 mm).
- Fast curing.
- Horizontal applications
- Vertical applications (thin layer)
- High pressure and abrasion resistance

### BENEFITS & FEATURES

- Easy to apply
- Odour free
- Dust free
- Liquid-tight (after polishing and with a minimum thickness of 10 mm).
- Fast curing
- Horizontal en vertical applications
- Can be used indoors and outdoors
- High pressure resistance
- High abrasion resistance

### APPLICATION

#### Application conditions

Approximately 24 hours before the application, EUCOREP EP must be stored between

+15°C and +25°C. The substrate, the ambient temperature and the temperature of the equipment to be used must be between +10°C and +30°C. Never work with EUCOREP EP below +10°C.

Relative ambient humidity: max. 80%.

Substrate moisture content: < 5% (weight percent).

Dew point before and during application and during curing: The temperature of the substrate must be +3°C higher than the dew point. Provide sufficient ventilation after application to obtain good curing of the product.

Compressive strength of the substrate: min. 25 N/mm<sup>2</sup>

Tensile strength of the substrate: min. 1.5 N/mm<sup>2</sup>

Expansion joints must be repeated in the synthetic resin system to be installed. Active cracks must be deactivated before coating them. Joints, old contraction joints and passive cracks or fissures can be covered. This on the condition that they are not used as expansion joints or if they do not follow other movements of the construction and the substrate.

#### Tools & complementary products

- Mixer with spindle
- Spray bottle with clean water
- Trowel

- Spatula
- EUCOPRIM EP or EUCOBIND EP
- EUCOSOLV MEK

### Preparations

The surface to be treated must be dry and free of standing water (moisture content <5%). Make cracks, fissures, joints and other parts showing water leaks completely water and leak proof with the EUCCHEM BV EUCCINJECT injection resins. Make sure that EUCOREP EP can be installed at least 5 mm thick. Mechanically remove all loose parts, then brush well and remove dust with an industrial vacuum cleaner. The surface must be free of dirt, grease, release agent, grease, old, demoulding oil, cement skin, old paint layers that do not adhere well, coatings, synthetic resin layers, adhesives, bitumen, ... or other matters that can adversely influence the adhesion. The substrate must be mechanically pretreated. For example by bullet blasting, sandblasting or by sanding the surface.

Prepare metal substrates by blasting them. The roughness grade for metal surfaces is SA 2 1/2. Then immediately degrease the surface with EUCOSOLV MEK. After complete evaporation of the solvent, immediately apply a suitable metal primer to prevent re-oxidation of the steel. After preparing the substrate, apply a primer. You can use EUCOPRIM EP or EUCOBIND EP for this. Immediately after applying the primer, EUCOREP EP must be applied to the area to be treated according to the "fresh in fresh method".

### Preparation of the product

First mix the EUCOREP EP A-component briefly to a homogeneous mixture. Then add the full amount of the EUCOREP EP B-component to the A-component. Mix again to obtain a homogeneous and lump-free mass. Mixing is always done with a mixer + spindle at a moderate speed.

### Application of the product

Pour the EUCOREP EP mixture onto the still wet, freshly applied primer in the zone to be treated. Spread and profile with a trowel and finish with a spatula. You can slightly moisten the bottom of the spatula with water from the spray bottle, to make the mortar more beautiful and easier to finish / polish. For hollow seamless plinths, use a curved skirting spatula. Maximum layer thickness 10 cm.

### Finishing

After 6 hours curing (at +20°C) the floor can be walked on and if necessary a sealing layer can be applied. (EUCCSEAL EP or EUCCSEAL EP THIX)

### Cleaning of the tools

Clean the used tools with EUCOSOLV MEK. Cured product residue must be removed mechanically.

### MAINTENANCE AFTER APPLICATION

If EUCOREP EP is coated with other synthetic resin products, please consult the technical data sheets of these systems.

### TECHNICAL DATA

#### Consumption

2 kg/m<sup>2</sup>/mm layer thickness

Or 2 kg/dm<sup>3</sup>

## Technical data & reaction times

Property	Value
Basic raw materials	Epoxy resin with fillers + polyamine hardener
Density	2 kg/dm <sup>3</sup>
Compressive strength	100 N/mm <sup>2</sup> .
Flexural strength	> 26 N/mm <sup>2</sup> .
Tensile strength	> 20 N/mm <sup>2</sup> .
Adhesion onto concrete / adhesion strength	Exceeds concrete cohesion - (>4MPa)
Temperature resistance	60°C continuously
Layer thickness	Min. 5 mm to max. 10 cm
Min. application temperature	10°C
Min. curing temperature	5°C
Chloride ion content	< 0,05%
Carbonation resistance	>7000%
Applicatietemperatuur	Satisfies
E modulus	> 21000 N/mm <sup>2</sup> .
Capillary absorption	< 0.5 kg.m <sup>-2</sup> .h <sup>-0.5</sup>

Pot life after mixing: 30 minutes

Pedestrian traffic: After 6 hours.

Can be mechanically loaded: After 12 hours.

Full chemical resistance: After 7 days. (Note: water is also a chemical product)

Full curing: after 7 days.

Times measured at +20°C. Lower temperatures extend and higher temperatures shorten the curing time.

## Chemical resistances

Good chemical resistance against alkalis, petroleum derivatives, battery acid, diluted organic acids, salts and solutions. For more information, please contact EUCCHEM BV.

## Additional documentation & referrals

Always consult all technical data sheets and material safety data sheets of the products to be used. Always work with clean tools in good condition.

## APPEARANCE - COMPOSITION - PACKAGING

EUCOSOLV EP is available as follows:

5 kg set (min. 120 sets)

Comp A: 4,82 kg

Comp B: 0,18 kg

10 kg set

Comp A: 9,64 kg

Comp B: 0,36 kg

25 kg set (min. 24 sets)

Comp A: 24.1 kg

Comp B: 0.9 kg

Storage takes place in a dry room between +5°C and +30°C in its unopened, original packaging; shelf life of 24 months after production date, if stored under the abovementioned conditions.

## ADDITIONAL COMMENTS

For special applications it is advisable to consult your EUCCHEM BV representative.

## SAFETY PRECAUTIONS

Always use personal protection in accordance with the local guidelines. Consult the appropriate safety sheets before use. All most recent safety data sheets are always available at [op www.eucochem.com](http://op.www.eucochem.com). When in doubt, contact our technical service.

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