

# EUCOREP EP FLOOR

## EPOXY-BASED FLOOR AND REPAIR MORTAR

### FIELD OF APPLICATION

EUCOREP EP FLOOR is a vapour permeable, mechanically loadable epoxy-mortar. Used as a levelling and repair mortar for other finishing layers in epoxy, polyurethane and polyaspartic. Suitable for slopes and can be polished.

- Battery rooms, chemical industry, power plants, electronics industry, garage, workshop, warehouse, resin mortar floors, industry with light traffic, storage of dangerous goods, public and private buildings, boiler room, etc...

### BENEFITS & FEATURES

- High mechanical resistance.
- Can be polished.
- Vapour permeable
- Accessible on foot after 12 hours
- Good spreading quality
- Silicone-free
- High mechanical resistance.
- Odourless

### APPLICATION

#### Application conditions

EUCOREP EP FLOOR must be stored between +15 and +25°C, approximately 24 hours before application. The surface, 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 FLOOR 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

#### 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 EUCOCHEM BV EUCCOINJECT injection resins. Make sure that EUCOREP EP FLOOR can be installed at least 5 mm thick. Remove loose parts mechanically.

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 IP 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 FLOOR A-component briefly to a homogeneous mixture. Then add the full amount of the EUCOREP EP FLOOR B-component to the A-component. Mix again to obtain a homogeneous mass. Pour the C-component into the mixture and 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 FLOOR 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 or butterfly machine. 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.

Minimum layer thickness 5 mm.

#### Finishing

After 12 hours curing (at +20°C) the floor can be walked on and if necessary a sealing layer can be applied. (EUCOSEAL EP or EUCOSEAL 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 FLOOR is overcoated 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 + fillers + polyamine hardener
Density	2 kg/dm <sup>3</sup>
Compressive strength	> 35 N/mm <sup>2</sup> .
Flexural strength	> 12 N/mm <sup>2</sup> .
Tensile strength	> 1.5 N/mm <sup>2</sup> .

Adhesion onto concrete / adhesion strength	2,6N/mm <sup>2</sup> - (exceeds concrete cohesion)
Temperature resistance	60°C
Layer thickness	From 5 mm 6-10 mm
Min. application temperature	10°C
Min. curing temperature	10°C
Curing	Shrink-free.
Wear resistance (Taber)	<10 mg (CS10-1000tr-1kg)
Tensile strength	Satisfies
E modulus	B 1,5
Impact resistance (DIN EN ISO 6272)	>10 Nm
Colour - Surface	Sandy - Flat and slightly porous

Pot life after mixing: approx. 30 minutes.

Pedestrian traffic: After 24 hours.

Can be mechanically loaded: After 4 days.

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

EUCCHEM EP FLOOR is available as follows:

28 kg set

Comp A: 2,2 kg

Comp B: 0.88 kg

Comp C: 24,92 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 above mentioned conditions.

C-Component = unlimited shelf life.

### 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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