

# EUCOPRIM EP ECO

## WATER BASED, DAMP OPEN EPOXY PRIMER

### FIELD OF APPLICATION

EUCOPRIM EP ECO is a water-based, damp-open epoxy primer. This primer is extremely suitable as an adhesive layer on concrete surfaces before applying EUCOCHEM synthetic resin systems.

- As a primer on concrete, before installing the EUCOCHEM EP ECO synthetic resin systems.
- As a primer on old synthetic resin systems (epoxy, polyurethane, polyaspartic)
- Parking decks, garages, workshops, warehouses, storage areas for dangerous goods, industry, basements and underground structures, decorative floors, retail spaces, shopping centres, public buildings, industrial kitchens, food and pharmaceutical industry,
- Can be used as a damp open, water based coating or top layer.
- Can be coated with cement floors after broadcasting.
- etc...

### BENEFITS & FEATURES

- Excellent adhesion to concrete.
- Can be used horizontally and vertically
- Can be applied on damp surfaces (< 10 Weight%)
- Water-based - vapour permeable
- Good spreading quality
- Moisture resistant curing
- Good mechanical resistance.

### APPLICATION

#### Application conditions

EUCOPRIM EP ECO 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.

Relative ambient humidity: max. 85%.

Substrate moisture content: < 10% (weight percent). 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>

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.

Moving joints and cracks (expansion joints, settlement joints, ...) must be repeated in the system. Contraction joints, cracks and joints can be over-coated, if treated correctly, provided they are not active and do not / no longer follow the movements / settlement of the building.

#### Tools & complementary products

- Mixer with spindle and clean mixing containers.
- As a primer: Rubber squeegee, brush or paint roller..
- Masking tape.
- Granulate if broadcasting of primer is desired

### Preparations

The surface to be treated must be dry or slightly damp (moisture content <10%) and must be free of free-standing water. Make cracks, fissures, joints and other parts showing water leaks completely water and leak proof with the EUCOCHEM BV EUCCOINJECT injection resins. Existing screeds and concrete surfaces must be at least 7 days old. Remove loose, poorly adhering or insufficiently load-bearing parts mechanically. Repair the areas that are not sufficiently flat with complimentary EUCOCHEM products.

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 therefore also be mechanically pretreated. For example by bullet blasting, sandblasting or by sanding the surface.

You can make seamless resin skirting boards with EUCOPRIM EP (primer) and EUCOREP EP (skirting and repair mortar).

Before applying the primer, brush all surfaces well and remove dust with an industrial vacuum cleaner.

Always use clean equipment and clean mixing containers.

### Preparation of the product

Add the A-resin component completely to the B component and mix for at least 2 minutes until a homogeneous mixture is obtained. This mixture can now be used as a primer, a transparent coating or a top coat.

The mixing operations are carried out mechanically with a mixer at low speed (max. 300 rpm) in order not to include air in the resin. This avoids the formation of air bubbles in the mixture and in the applied layer. After this, the product is ready for use.

### Application of the product

Process the product within 30 minutes after mixing. (at +20°C)

Application with brush or paint roller:

Pour EUCOPRIM EP ECO onto the surface to be treated and spread evenly with the paint roller or brush until a completely closed film is obtained.

Application with rubber squeegee + paint roller:

Pour EUCOPRIM EP ECO onto the surface to be treated and spread evenly with the rubber squeegee until a completely closed film is obtained. Application with a rubber squeegee on smooth, even surfaces is automatically followed by subsequent rolling with a 50 cm wide paint roller. Provide complete coverage of the surface.

When applying on highly absorbent surfaces, you can opt to apply a second layer, 24 hours after application of the first layer.

To further improve the adhesion between primer and synthetic resin system to be applied afterwards, EUCOPRIM EP ECO can be optionally broadcasted with granulates.

### Finishing

24 hours (at 20°C) after applying EUCOPRIM EP ECO a next layer of the synthetic resin system can be applied.

### Cleaning of the tools

Clean the used equipment with pure water. Cured product residue must be removed mechanically.

## MAINTENANCE AFTER APPLICATION

Primer: Does not apply.

As a transparent coating or top coat: Please contact EUCCHEM BV

## TECHNICAL DATA

### Consumption

Approx. 200 g/m<sup>2</sup>/layer.

Depending on the porosity and the roughness of the substrate

### Technical data & reaction times

Property	Value
Basic raw materials	A comp.: Epoxy resin B comp.: Polyamine hardener
Composition	Resin: 2 components Optional broadcasting granules order separately
Density	Resin mixture (A+B): 1,4 kg/dm <sup>3</sup>
Viscosity	Resin mixture (A+B): 2500 mPa.s at 20°C (+/-500)
Bonding strength on concrete)	B 1,5
Reaction to fire	Bfl - S1
Wear resistance	< 3000 mg (H22 - 700 tr - 1 kg)
Heat resistance	60°C continuously
Colour resin mixture	Satin - transparent

Pot life after mixing: Max. 30 min

Re-coat time: After 24 hours

Pedestrian accessible: After 24 hours

Full mechanical load: After 7 days

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

Times measured at 20°C. Changes in temperature result in different reaction times.

### Chemical resistances

EUCOPRIM EP ECO has excellent chemical resistance to alkalis, petroleum derivatives, battery acid, diluted organic acids, salts and solutions. When used in applications with chemically products, it is advisable to consult your EUCCHEM BV representative.

### 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

EUCOPRIM EP ECO is available as follows:

10.92 kg set:

Comp. A: 2 kg

Comp. B: 8.92 kg

EUCOPRIM EP ECO can be stored in its original, unopened packaging and in a dry room. Do not store in direct sunlight and between +5°C and +30°C. It has a shelf life of 24 months after production date, provided it is stored under the conditions described above.

## 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://www.eucochem.com). When in doubt, contact our technical service.

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