

# EUCOSEAL EP

## TRANSPARENT EPOXY SEALER AND TOPCOAT

### FIELD OF APPLICATION

EUCOSEAL EP is an epoxy-based, two-component, solvent-free floor sealer, casting resin or topcoat for synthetic resin floors consisting of polyaspartic or epoxy.

- As a transparent sealer for broadcasted synthetic resin systems consisting of polyaspartic or epoxy.
- As a transparent self-levelling resin for extra protection of polyaspartic or epoxy synthetic resin floors.
- As a sealer of multilayer or deco (with broadcasted coloured quartz) floor systems.
- As a transparent topcoat on epoxy and polyaspartic self-levelling floors.
- Particularly suitable for car parks, garages, warehouses, industrial halls, laboratories, private applications, food, shopping centres, museums, ...
- Etc.

### BENEFITS & FEATURES

- Solvent free
- Low yellowing compared to standard epoxy.
- Excellent grip.
- Excellent mechanical resistance..
- Versatile.
- Easy to use.
- Abrasion resistance.
- Improved chemical resistance

### APPLICATION

#### Application conditions

EUCOSEAL EP 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 +5°C and +30°C.

Relative ambient humidity: max. 80%.

Substrate moisture content: < 5% (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.

#### Tools & complementary products

- Mixer with spindle.
- Squeegee, trowel, paint roller suitable for processing synthetic resins.
- Clean mixing containers.
- Masking tape.

#### 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 EUCCOIN-JECT injection resins. Remove loose, poorly adhering or insufficiently load-bearing parts mechanically. Then brush well and remove dust with an industrial vacuum cleaner. Repair the areas that are insufficiently flat with an equalising / levelling layer or mortar complementary to the system to be installed. 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.

When applying EUCOSEAL EP on existing old coatings, always sufficiently sand, degrease, make dust-free and clean the surface. Always use clean equipment and clean mixing containers.

#### Preparation of the product

First mix component A mechanically for 2 minutes with a mixer and spindle. Then add the B component completely to the A component and mix again for at least 2 minutes until a homogeneous mixture is obtained. If desired, EUCOSEAL EP can now be diluted with EUCOSOLV MEK. (Max. 2 %). Mix again.

The mixing operations are carried out 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.

After mixing, the product is ready for use as a sealer, as a topcoat or as a self levelling resin.

#### Application of the product

Process the product within 45 min. (at +15°C) / 30 min (at +20°C) / 15 min (at +30°C).

#### AS A TOPCOAT

Pour EUCOSEAL EP onto the surface to be treated. Roll the coating with a paint roller (12 mm hair) onto the surface and spread evenly until a completely closed film is obtained. Always work crosswise. If necessary a second layer can be applied.

#### AS A SEALER

Pour EUCOSEAL EP onto the surface to be treated. Spread evenly with the rubber squeegee or with a trowel until a completely closed film is obtained. Always work crosswise.

#### AS A SELF LEVELLING RESIN

Pour EUCOSEAL EP onto the surface to be treated. Spread evenly with the trowel, spatula or tooth comb until a completely closed film is obtained. Roll afterwards with a spiked roller.

#### Finishing

Does not apply.

#### Cleaning of the tools

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

### MAINTENANCE AFTER APPLICATION

See the EUCOCHEM BV information leaflet SYNTHETIC RESIN FLOORS - CLEANING AND MAINTENANCE.

## TECHNICAL DATA

### Consumption

As a topcoat:

300 g/m<sup>2</sup>/layer.

As a sealer:

600 to 900 g/m<sup>2</sup> - depending on the roughness of the substrate.

As a self-levelling resin:

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

### Technical data & reaction times

Property	Value
Basic raw materials	Epoxy resin - solvent free
Composition	2 component
Density (20°C)	Resin: comp A: 1,10 kg/dm <sup>3</sup> Hardener: comp B: 1,02 kg/dm <sup>3</sup> Mixture (A+B): 1,07 kg/dm <sup>3</sup>
Mixing ratio	A : B = 2 : 1 (in weight)
Tensile strength	> 2mPa
Hardness Shore - D	85 at 23°C after 7 days
Viscosity (25°C)	Comp A: 500 – 900 mPa s Comp B: 70 – 120 mPa s
Dry matter content	99% (+/- 1%)
Aspect - colour	Glossy - transparent
Flash point	N/A
VOC / COV:	Conforms to 2004/42/CE. Limit imposed by the EU for this type of product: 500g/l COV (2010). The mixed product contains: 145 g/l COV.
Odour	Practically odourless

Pot life after mixing:

45 min. (at +15°C)

30 min. (at +20°C)

15 min. (at +30°C)

Pedestrian traffic:

After 36 hours (at +15°C)

After 24 hours (at +20°C)

After 18 hours (at +30°C)

Light mechanical load:

After 6 days (at +15°C)

After 3 days (at +20°C)

After 2 days (at +30°C)

Full curing + mechanical load: (Attention: water is also a chemical product)

After 10 days (at +15°C)

After 7 days (at +20°C)

After 5 days (at +30°C)

### Chemical resistances

Good chemical resistance, also against organic chemical compounds (hydrocarbons). When used in applications with chemically contaminated water, 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

EUCCHEM EP is available as follows:

30 kg set:

Comp. A : 20 kg

Comp. B: 10 kg

(600 kg sets on demand)

EUCCHEM EP can be stored in its original, unopened packaging and in a dry room. Do not store in direct sunlight and between +10°C and +30°C. It has a shelf life of 12 months after production date, provided it is stored under the conditions described above.

### ADDITIONAL COMMENTS

Expansion joints must be included in the system. Contraction joints, cracks and joints can be overcoated, if treated correctly, provided they are not active and do not / no longer follow the movements / settlement of the building. 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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