

EUCOSEAL EP THIX

COLOURLESS THIXOTROPIC EPOXY RESIN FOR STANDARD AND COLOURED QUARTZ SYSTEMS.

FIELD OF APPLICATION

EUCOSEAL EP THIX is a 2-component, solvent-free and thixotropic epoxy resin. Extremely suitable as a binder for quartz and coloured quartz, as a sealer for quartz-based synthetic resin systems, etc.

- As a transparent binder for coloured quartz systems, sand, stone and marble carpets. Can be used horizontally and vertically (Plinths)
- As a transparent sealer for coloured quartz systems.
- As a sealer and pore filler for trowel floors.
- As a sealer of multilayer or deco (with broadcasted coloured quartz) floor systems.
- Particularly suitable for public buildings, private applications, shops and shopping centres, museums, schools, ...
- Etc.

BENEFITS & FEATURES

- Solvent free
- Excellent grip.
- Good mechanical and chemical resistance.
- Very low yellowing.
- Easy to apply.
- No shrinkage during polymerization.

APPLICATION

Application conditions

EUCOSEAL EP THIX must be stored between +15°C and +25°C approximately 24 hours before the application. The substrate, the ambient temperature and the temperature of the equipment to be used must be between +10°C and +30°C.

Relative ambient humidity: max. 80%.

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

Compressive strength of the substrate: min. 25 N/mm².

Tensile strength of the substrate: min. 1.5 N/mm².

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. (Depending on the application)
- Clean mixing containers.
- Masking tape.
- EUCOSOLV MEK (for tool cleaning)

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. 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 egalising / 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 THIX on existing old coatings, always sufficiently grind, degrease, make dust-free and clean the surface. Always use clean equipment and clean mixing containers. Apply a suitable primer before applying EUCOSEAL EP THIX with quartz as a mortar or plinths

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. 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 thixotropic primer, as a sealer or as a binder.

Now a mortar can be made by adding quartz / coloured quartz to the mixture with a mixing ratio "mixture : quartz - 1 : 7"

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 PRIMER:

Spread EUCOSEAL EP THIX evenly over the surface with a roller or brush at a rate of 200 to 250 g/m². (Depending on the porosity and the roughness of the substrate.)

AS A SEALER

Spread EUCOSEAL EP THIX evenly with the rubber squeegee or with a trowel until a completely closed film is obtained at a rate of 300 to 700 g/m². (Depending on the porosity and the roughness of the substrate.)

AS A MORTAR:

Pour the mixture of EUCOSEAL EP THIX with quartz onto the surface to be coated and spread evenly with a trowel.

Finishing

The mortar can be sealed with EUCOSEAL EP THIX as a sealer.

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 primer:

200 to 250 g/m² depending on the roughness of the substrate.

As a sealer:
300 to 700 g/m² - depending on the roughness of the substrate.

As a mortar:
1 kg of resin mixture + 7 kg of quartz granulate.
Consumption depending on the thickness of the mortar layer.

Technical data & reaction times

Property	Value
Basic raw materials	Epoxy resin - solvent free
Composition	2 components For mortars : quartz to be ordered separately.
Density (20°C)	Resin: comp A: 1,14 kg/dm ³ Hardener: comp B: 1,07 kg/dm ³ Mixture (A+B): 1,12 kg/dm ³
Mixing ratio	A : B = 2 : 1 (in weight)
Tensile strength	> 2mPa
Hardness - Shore D	85 at 23°C after 7 days
Mechanical resistance of the castable mortar (ratio 1/7 with calibrated silica)	Flexural strength after 28 days > 35 mPa Compressive strength after 28 days > 93 mPa
Dry matter content	100%
Flash point	N/A
Aspect - colour	Transparent
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: 115 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 chemicals, 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

EUCOSEAL EP THIX is available as follows:

10 kg set:

Comp. A : 6,7 kg
Comp. B: 3,3 kg

EUCOSEAL EP THIX 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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