

EUCOCOAT PU ECO TRSP

WATER-BASED, TRANSPARENT POLYURETHANE TOPCOAT

FIELD OF APPLICATION

EUCOCOAT PU ECO TRSP is a transparent, matt/satin/gloss polyurethane topcoat for EUCOCHEM synthetic resin floor systems.

- As a top coat for epoxy, polyurethane, polyaspartic cast floors (new and renovation)
- As a top coat on epoxy, polyurethane and polyaspartic coatings.
- Particularly suitable for car parks, garages, warehouses, - industrial halls, laboratories, private applications, food, shopping centres, museums, ...
- etc...

BENEFITS & FEATURES

- Water-based.
- Matt, satin or gloss
- Can be used indoors and outdoors.
- Good adhesion.
- New or renovation of old topcoat.
- Good wear and scratch resistance.
- UV resistant
- No odour nuisance
- Easy to process

APPLICATION

Application conditions

EUCOCOAT PU ECO TRSP 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: < 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.

Moving joints and cracks (expansion joints, settlement joints, ...) must be repeated 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.

Tools & complementary products

- Mixer with spindle..
- Brush or paint roller (12 mm hair and suitable for synthetic resin),
- Clean mixing containers.
- Masking tape.

Preparations

EUCOCOAT PU ECO TRSP will always be applied onto a new or existing cast floor or coating (epoxy, polyurethane or polyaspartic). The surface to

be treated must be dry (moisture content <5%) 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.

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.

Existing old synthetic resin systems (older than 7 days) must be grinded with EUCOSOLV MEK or sanded with a diamond disc.

Remove loose, poorly adhering or insufficiently load-bearing parts mechanically. Repair the areas that are not sufficiently flat. Then make the surface completely dust-free by vacuuming with an industrial vacuum cleaner.

Newly applied coatings and cast floors must be overcoated within the overcoating time of the products used.

Pre-treat metal parts first and apply a suitable primer.

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.

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 topcoat.. Never dilute the product. This is to be able to preserve a final, uniform aspect of the entire surface.

Anti-slip finish is possible by adding our anti-slip filler EUCOGRAN MGB microfine glass beads. (Amount of 2%by weight).

Application of the product

Apply EUCOCOAT PU ECO TRSP within 30 minutes (at 30°C) / 60 minutes (at 20°C) / 120 minutes (at 15°C) after mixing the product.

Apply EUCOCOAT PU ECO TRSP with a brush, roller or airless spraying equipment (50 to 60 g/m² per layer) onto the surface. Apply at least 2 layers. For areas with a heavy intensive load: Apply at least 3 layers.

Finishing

Does not apply.

Cleaning of the tools

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

MAINTENANCE AFTER APPLICATION

For this we refer to the Brochure "Synthetic resin floors - cleaning and maintenance".

TECHNICAL DATA

Consumption

Transparent: 50 to 60 g/m²/layer.

Apply at least 2 layers.

With heavy, intense loads: apply 3 layers.

Technical data & reaction times

Property	Value
Basic raw materials	Modified polyurethane resin Water-based.
Density	Comp A: 1,04 kg/dm ³ Comp B: 1,12 kg/dm ³ Mixture A+B: 1,06 kg/dm ³
Mixing ratio A : B	3.8 : 1 (weight)
Dry matter content	Glossy 46% (+/- 2%) (weight) 41% (+/- 2%) (weight) Satin 51% (+/- 2%) (weight) 47% (+/- 2%) (weight) Matt 55% (+/- 2%) (weight) 51% (+/- 2%) (weight)
Adhesion onto concrete	> 2.0 mPa
Wear resistance (Taber / CS 10 / 1 kg)	50 mg, after 1000 r.
Hardness Persoz-pendulum	27 sec.
VOC / COV	Conforms to 2004/42/CE. Limit imposed by the EU for this type of product: 140g/l COV (2010). The mixed product contains: 70 g/l COV
Colour	Transparent

Pot life after mixing:

Approx. 2.5 hours (at 15°C).

Approx 2 hours (at 20°C).

Approx 1.5 hours (at 30°C)

Re-coat time: application of the next layer.

Approx. 12 to 48 hours (at 15°C)

Approx. 6 to 48 hours (at 20°C)

Approx. 4 to 24 hours (at 30°C)

Pedestrian accessible:

Approx. 48 hours (at 15°C).

Approx 24 hours (at 20°C).

Approx 18 hours (at 30°C)

Light traffic:

Approx. 3 days (at 15°C).

Approx 2 days (at 20°C).

Approx 1 day (at 30°C)

Full mechanical load: After 8 days

Full chemical resistance: After 8 days- Attention: water is also a chemical.

Full cure: After 8 days.

*Other ambient temperatures as well as the relative humidity influence the above data.

Chemical resistances

Good chemical resistance against 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

EUCCOAT PU ECO TRSP is available as follows:

5 kg set:

Comp A: 3,95 kg

Comp B: 1.05 kg

10 kg set:

Comp A: 7.90 kg

Comp B: 2.10 kg

EUCCOAT PU ECO TRSP 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. Shelf life 12 months after production date if kept under the above mentioned conditions.

ADDITIONAL COMMENTS

Synthetic resin systems of unknown composition can only be overcoated after an adhesion test has been carried out with a positive result. 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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