

# EUCOCOAT PU STRUCTURE

## STRUCTURED POLYURETHANE TOP COAT

### FIELD OF APPLICATION

EUCOCOAT PU STRUCTURE is a transparent or coloured, matt polyurethane top coat with a structured effect after curing. This gives it a light anti-slip effect.

Applied in 1 layer, EUCOCOAT PU STRUCTURE is vapour-open, in 2 layers it is vapour-tight.

- As a top coat for epoxy, polyurethane, polyaspartic and cementitious cast floors. (New or 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

- One component
- Transparent or coloured
- Very high UV resistance
- Very high abrasion and scratch resistance
- Low consumption
- Surface with a light structure
- Low dirt absorption

### APPLICATION

#### Application conditions

EUCOCOAT PU STRUCTURE 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/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 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 and clean mixing containers.
- Brush or paint roller (12 mm hair and suitable for synthetic resin),
- Clean mixing containers.
- Masking tape.

Order separately:

- EUCOCOLOR POWDER - RAL

### Preparations

EUCOCOAT PU STRUCTURE will always be applied on a new or existing cast floor (epoxy, polyurethane, polyaspartic or cementitious) or on a new or existing 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.

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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

Apply EUCOCOAT PU STRUCTURE within 45 minutes (at 20°C) after mixing the product.

Apply EUCOCOAT PU STRUCTURE from a paint bucket or paint roller tray with a lint-free paint roller. Spread crosswise over the surface with sufficient pressure. After 15 minutes, finish crosswise with a wide paint roller without pressure. Always perform the last movement in the same direction to avoid structural differences. Always replace the paint rollers after 45 minutes. A second layer can be applied after 24 hours.

NOTE:

Applied in 1 layer = vapour open. Applied in 2 layers = vapour tight.

### Application of the product

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Always carry out the last movement in the same direction to avoid structural differences. Replace the paint rollers after every 45 minutes.

A second coat can be applied after 24 hours.

NOTE:

Applied in 1 layer = vapor open.

Applied in 2 layers = vapor tight.

### 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

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

## TECHNICAL DATA

### Consumption

Transparent: 100 g/m<sup>2</sup> per layer.

Coloured: 120 g/m<sup>2</sup> per layer.

### Technical data & reaction times

Property	Value
Basic raw materials	Modified polyurethane resin
Density	1.1 kg/dm <sup>3</sup>
Viscosity	350 mPa.s
Layer thickness	80 – 100 µm
Adhesion	> 2.0 N/mm <sup>2</sup> .
Aspect	Matt - structured
Hardness Shore D	80 – 90
Mixing ratio	Transparent: ready to use Coloured top coat: 5 kg Transparent + 0.75 kg Pigment powder
Curing	Shrink-free.
Wear resistance (Taber)	<10 mg CS10-1000tr - 1 kg
Impact resistance (DIN EN ISO 6272)	>10 Nm
Colour	TRANSPARENT or RAL - see BROCHURE EUCOCHEM COLOR CHART - PIGMENT POWDER = order separately)

Pot life after mixing: 45 minutes

Hand dry: 6 hours.

Can be mechanically loaded: After 48 hours.

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

Full curing: after 7 days..

Times measured at +20°C. Lower temperatures extend the curing time.

### 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 EUCOCHEM 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

EUCOCOAT PU STRUCTURE is available as follows:

TRANSPARENT

5 kg pot

COLOURED:

5.75 kg

EUCOCOAT PU STRUCTURE 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 6 months after production date, provided it is stored under the conditions described above.

## 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 EUCOCHEM 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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