

EPISOL® PU TOPCOAT WBN-T

WATER-BASED POLYURETHANE TOP LAYER FOR EPOXY AND POLYURETHANE FLOORS



DESCRIPTION

EPISOL® PU TOPCOAT WBN-T is a water-based transparent polyurethane top layer for epoxy and polyurethane floors with a high wear and UV resistance.

ADVANTAGES

- Water-based - solvent-free
- Odourless
- Very high UV resistance
- High chemical resistance
- High wear resistance
- Liquid-tight
- Matt
- High coverage ratio
- Low consumption
- Smooth surface
- Low dirt intake

FIELD OF APPLICATION

For dry indoor areas, such as:

- Private buildings
- Public buildings
- Commercial centres
- Office buildings
- Hospitals
- Residential care centres
- Refectories
- Floors to be industrially coated with half heavy load
- etc.

APPLICATION

Note: The following is a typical application description. In case of other jobsite parameters, please contact our technical department.

PRELIMINARY ANALYSES

Before starting the substrate preparations and the application of the product it is important to verify the different parameters to obtain good sustainable results.

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

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

Moisture content in the substrate ≤ 4% moisture.

Conditions during application and curing: see "Implementing conditions" further described in this technical sheet.

Technically studied dilatation joints have to be provided. These are reintroduced in the artificial resin to be placed. The flatness of the floor has to correspond with the desired requirements. If this is not the case, correct measures need to be taken to fill up irregularities or to level with products that are complementary to the substrate and the topcoat to be applied.

Joints and passive cracks or flaws can be overcoated. This is on the condition that they are not used as dilatation joints or if they do not follow different movements of the construction and the substrate and that they are polished with complementary products to the substrate and the artificial resin to be applied.

REQUIRED TOOLS

- Mixer with spindle. (min. 300 tr/min)
- Short-pile mohair roller products
- Masking tape
- Paint roller bin
- Clean container

PREPARATION OF THE SUBSTRATE

EPISOL® PU TOPCOAT WBN-T is placed on a hardened polyurethane or epoxy synthetic resin floor system. Polyurethane and epoxy synthetic resin floors or existing top layers older than 28 days need to be roughened, or sanded, to create sufficient intermediate adhesion. An adhesion test must be carried out before further processing.

Always apply the products on a clean surface, free of adhesion-reducing materials such as dirt, oil, grease, old coatings or surface treatments, etc. The parts of the surfaces to be covered that do not comply with the requirements as described above (Flatness, compressive strength, tensile strength, not corresponding parts, ...) should be treated or removed and repaired according to a correct method with products complementary to the substrate and the top layer yet to be applied. Remove loose parts by brushing well and remove dust with an industrial vacuum cleaner.

PREPARATION OF THE PRODUCT

Mixing

Stir the components intensively until a homogeneously consistency is obtained. Add the full quantity of component A and component B in a clean container and mix mechanically with a slow-running (300 tr/min) mixer into a homogeneous mixture.

Do not add solvents for dilution. Adding water is normally not needed. Immediately reseal opened containers to prevent evaporation/encrustation in the wall area.

PREPARATION OF THE EQUIPMENT

Always work with clean mixing and application equipment.

APPLICATION

Apply EPISOL® PU TOPCOAT WBN-T from a paint bucket or paint roller tray with a short-pile mohair roller evenly in a thin layer to the prepared substrate. An exhaustive wetting, without defects must be ensured, as defects can lead to loss of adhesion in case of standing water loads. Therefore, 2 work steps or layers of maximum 80 g/m² each are recommended. If the substrate is dry and walkable after the first layer, the second layer should take place within the next 3 to 5 hours. The total consumption should be ca. 120 – 160 g/m².

We strongly advise against using other application techniques or using excessive quantities per coat. Locally to high layer thickness may result in blistering, loss of transparency, or colour change.

Overlaps should be finished after 8 - 10 minutes at the latest, otherwise roll tracks may become visible.

The initially wavy wet film levels out during drying and curing.

Replace the paint rollers after 45 minutes. Ensure adequate ventilation during curing.

FINISHING

Apply the second layer within the 3 to 5 hours immediately after the first layer is dry and walkable.

APPLICATION CONDITIONS

Conditions during application and curing of the products. The recommended processing temperature for the substrate, environment, materials and products is between + 10 °C and + 25 °C. Relative humidity: Max. 85%

Dew point: The temperature of the substrate and of the not fully cured product must be at least 3 °C higher than its dew point. Avoid condensation on the surface from the moment the preparations start until the complete curing of the products. Provide adequate ventilation and a low relative humidity during curing.

CLEANING AND MAINTENANCE

Clean the used tools with clear water before curing the EPISOL® PU TOPCOAT WBN-T. Cured product remains have to be removed mechanically.

To clean and maintain the installed synthetic resin system, please refer to the information leaflets:

Cleaning and maintenance of synthetic resin floor systems - INDUSTRY
Cleaning and maintenance of synthetic resin floor systems - PUBLIC AND PRIVATE BUILDINGS

COMPLIMENTARY PRODUCTS

Product for cleaning tools: Clear water

ADVICE / FOCAL POINTS

Synthetic resin floors of unknown composition can only be overcoated after an adhesion test has been performed and the results of this test are positive.

TECHNICAL DATA

APPEARANCE - COMPOSITION

| | |
|--------------|--------------------|
| Raw Material | Polyurethane based |
| Appearance | Transparent , matt |

REACTION TIMES

Processing time after mixing: 30 minutes. Pedestrian traffic: After 24 hours.

Fully mechanically loadable and chemical resistance: After 7 days. (Attention: water is also a chemical product)

Complete curing: after 7 days.

Times measured at 23 °C, lower temperatures extend the curing time.

CONSUMPTION

Approximately 80 g/m² per layer.


TECHNICAL DATA

| | |
|------------------------------|--------------------------|
| Mixing ratio Comp A : Comp B | 4.8 : 1.2 (weight ratio) |
| Density | 1.1 kg/dm ³ |
| Viscosity | Low |
| Layer thickness | 80-100 µm |
| Adhesion | >1.5 N/mm ² |

CHEMICAL RESISTANCES

Good chemical resistance to alkalis, petroleum derivatives, battery acid, dilute organic acids, salts and solutions. Limited resistance (staining) against tannins, antioxidants, plasticizers, etc. Stains are no longer removable and will darken under UV load. For more information please contact RESIPLAST® NV.

CE MARKING

| | |
|---|-----------------|
|  | |
| KORAC NV, Gulkenrodestraat 3, 2160 Wommelgem, Belgium | |
| 22 | |
| EN 13813 | |
| Synthetic resin floor/coating for indoor use in buildings | |
| Release of corrosive substances | SR |
| Abrasion resistance | ≤ AR0,5 |
| Bond strength | ≥ B1,5 |
| Impact resistance | ≥ IR4 |
| Reaction to fire | E _{fl} |

REFERENCE DOCUMENTS



PACKAGING

| | | |
|--------------------------|--------|--------|
| EPISOL® PU TOPCOAT WBN-T | Comp A | Comp B |
| Set 6 kg | 4.8 kg | 1.2 kg |

STORAGE AND SHELF LIFE

Store EPISOL® PU TOPCOAT WBN-T in a dry, well-ventilated storage room between +15 °C and +25 °C.

Shelf life: 6 months after production date.

When in doubt, contact RESIPLAST® NV and enter the batch number mentioned on the packaging. Do not discharge into groundwater, surface water or sewerage. Dispose of contaminated packaging and waste according to the applicable legal requirements.

SAFETY PRECAUTIONS

Carefully read the safety instructions before using EPISOL® PU TOPCOAT WBN-T. A characteristic odour is created during processing. Ensure adequate ventilation, keep away from sources of ignition and do not smoke. Avoid skin contact. Eye irritation and /or hypersensitivity may occur with vigorous vapour concentration, inhalation and / or skin contact. Do not store provisions (food, drinks) in the same workspace. Always wear personal protective equipment in accordance with applicable local guidelines and legislation. Gloves and safety glasses are mandatory.

The above information is provided in good faith, but without any guarantees. The application, use and processing of the products are beyond our control and are, as such, the sole responsibility of the user/processor. In the event that KorAC NV is still held liable for damages, then the claim will still be limited to the value of the goods delivered. We always aim to deliver consistently high quality goods. All values on this technical sheet are average values that result from tests carried out under laboratory conditions (20 °C and 50% RH). Values that are measured on the construction site may show a slight deviation since the environmental conditions, the application, and the way of processing our products are beyond our control. Do not add any products other than those indicated on the technical documentation. This version replaces all previous versions. Version 2.0 Date: 16 January 2023 3:03 pm