Technical Datasheet

# TOPCOAT-PU 720

## One-component, pigmented, UV-stable, polyurethane topcoat

### Description

TOPCOAT-PU 720 is a one-component, pigmented, aliphatic, polyurethane topcoat, used for the protection of exposed polyurethane waterproofing coatings, especially if a dark final color has been chosen. Forms a UV-stable, waterproof membrane offering the following advantages:

- simple application (one-component product),
- color stability,
- a glossy and easy-to-clean surface, resistant to light pedestrian traffic,
- elasticity,
- resistance to frost,
- maintenance of its mechanical properties over a temperature span of -40°C to +90°C.

TOPCOAT-PU 720 (white) has been successfully tested by a third-party laboratory for its high solar reflectance, which improves building energy efficiency and, in turn, reduces cooling costs, making it an ideal solution for cool roofs.
Certified according to EN 1504-2 and classified as a coating for surface protection of concrete. Certificate No.: 2032-CPR-10.11.
Also certified according to EN 13813 and classified as a synthetic resin screed. CE marked.

### Fields of application

TOPCOAT-PU 720 is used for the protection of polyurethane waterproofing coatings from:

- UV exposure, especially when a dark color has been chosen,
- pedestrian and light vehicular traffic (e.g. parking decks).

Furthermore, it can be used for protection of metal and concrete surfaces.

### Technical data

**Properties of the product in liquid form**

| | |
|---|---|
| Form: | polyurethane prepolymer |
| Colors: | white, grey |
| Density: | 1.19 ± 0.01 kg/l |
| Viscosity: | 360 - 500 mPa·s (+23°C) |

**Properties of the cured membrane**

| | |
|---|---|
| Elongation at break: (EN ISO 527) | > 150% |
| Tensile strength: (EN ISO 527) | > 20 N/mm$^2$ |
| Hardness according to SHORE D: | 57 |
| Water impermeability at hydrostatic pressure: (DIN 1048) | 5 atm |
| Solar Reflectance (SR): (ASTM E903-96, ASTM G159-98) | 88% |
| Infrared Emittance ε (±0,02): (ASTM C1371-04a) | 0.91 |
| Solar Reflectance Index (SRI): (ASTM E1980-01) | 112 |
| Adhesion: (EN 1542) | > 2 N/mm$^2$ |
| Abrasion resistance: (EN 13892-4 (BCA)) | AR 0.5 |
| Impact resistance (EN ISO 6272): | 8 Nm |
| Capillary absorption: (EN 1602-3, requirement of EN 1504-2: w< 0.1) | 0.01 kg/m$^2$·h$^{0.5}$ |
| Permeability to $CO_2$: (EN 1062-6, requirement $S_d$ > 50m) | Sd = 184 m |
| Water vapor permeability: (EN ISO 7783-2, Class I, $S_d$ < 5m) | Sd = 0.65 m |
| Artificial weathering: (EN 1062-11, after 2000 h) | Pass (no blistering, cracking or flaking) |
| Service temperature: | from -40°C to +90°C |

# TOPCOAT-PU 720

## Directions for use

**1. Substrate preparation**
The substrate must be completely dry, clean, free of grease, loose particles, dust, etc. Existing polyurethane waterproofing coatings do not require priming.

1.1 Metal surfaces
Metal surfaces should be:
- Dry and clean.
- Free of grease, loose particles, dust, etc. that might impair adhesion.
- Free of rust or corrosion that might impair adhesion.

Having been prepared by brushing, rubbing, sandblasting, etc. and then thoroughly cleaned from dust, metal surfaces are primed with the anticorrosive epoxy coating EPOXYCOAT-AC in one or two layers. EPOXYCOAT-AC is applied by roller, brush or spray. The second layer follows after the first has dried but within 24 hours.
Consumption: 150-200 g/m$^2$/layer.

Application of TOPCOAT-PU 720 should follow within the next 24-48 hours.

1.2. Concrete surfaces
Concrete surfaces must be treated with the polyurethane primer PRIMER-PU 100 in one coat, with a consumption of approx.. 200 g/m$^2$.

**2. Application**
Before application, it is recommended to slightly stir TOPCOAT-PU 720 until it becomes homogeneous. Excessive stirring should be avoided to prevent air entrapment.
TOPCOAT-PU 720 is applied by brush, roller, or spray in one or two layers, 2-3 hours after priming and while PRIMER-PU 100 is still tacky. The second layer should be applied crosswise after 4-24 hours, depending on the weather conditions.
Consumption: 0.12-0.25 kg/m$^2$/layer, depending on the substrate.

Tools should be cleaned with SM-28 solvent while TOPCOAT-PU 720 is still fresh.

## Packaging

TOPCOAT-PU 720 is supplied in 1 kg, 5 kg and 20 kg pails.

## Shelf life – Storage

9 months in original, unopened containers, in frost-free and dry conditions.

## Remarks

- In case of application by spray, it may be diluted, depending on the weather conditions, up to 3%, only with the special solvent SM-28.
- TOPCOAT-PU 720 is not suitable for contact with chemically treated water of swimming pools.
- Temperature during application and hardening should be between +5°C and +35°C.
- Unsealed containers should be used as soon as they are opened and cannot be restored.
- TOPCOAT-PU 720 is intended for professional use only.

## Volatile Organic Compounds (VOCs)

According to Directive 2004/42/CE (Annex II, table A), the maximum allowed VOC content for the product subcategory i, type SB, is 500 g/l (2010) for the ready-to-use product.
The ready-to-use product TOPCOAT-PU 720 contains a maximum of 500 g/l VOC.

The technical information and instructions supplied in this datasheet are based on the knowledge and experience of the Research and Development Department of our company and on results from long-term applications of the product in practice. The recommendations and suggestions referring to the use of the product are provided without guarantee, since site conditions during the applications are beyond the control of our company. Therefore the user is responsible for confirming that the chosen product is suitable for the envisaged application. The present edition of this technical datasheet automatically cancels any previous one concerning the same product. | Edition: 21.05.2026

# TOPCOAT-PU 720

CE

2032

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**2032-CPR-10.11**

DoP No.: TOPCOAT-PU 720/1838-01

**EN 1504-2**

Surface protection products

Coating

Permeability to $CO_2$: Sd > 50 m

Water vapor permeability: Class I (permeable)

Capillary absorption: w < 0.1 kg/m$^2$·h$^{0.5}$

Adhesion strength by pull off test:

≥ 2.0 N/mm$^2$

Artificial weathering: No visual defects (slight loss of gloss)

Reaction to fire: Euroclass F

Dangerous substances comply with 5.3

CE

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**EN 13813 SR-B2,0-AR0,5-IR8**

Synthetic Resin screed material for use internally in buildings

DoP No.: TOPCOAT-PU 720 / 1864-01

Reaction to fire: NPD

Release of corrosive substances: SR

Water permeability: NPD

Wear resistance: AR0,5

Adhesion: B2,0

Impact resistance: IR8

Sound insulation: NPD

Sound absorption: NPD

Thermal resistance: NPD

Chemical resistance: NPD

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