

# TOPCOAT-PU 720

## One-component, aliphatic polyurethane coating

### Description

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

- Simple application (one-component product).
- Color stability.
- A glossy and easy-to-clean surface, resistant to light pedestrian traffic.
- Resistance to frost.
- Maintenance of its mechanical properties over a temperature span of -40°C to +90°C.

Certified according to EN 1504-2 and classified as a surface protection coating for concrete. Certificate No.: 2032-CPR-10.11. Also certified according to EN 13813 and classified as 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 traffic and light vehicle traffic (e.g. parking decks)

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

### Technical data

#### Properties of the product in liquid form

Form:	polyurethane prepolymer
Colors:	white, grey
Density:	1.16 kg/l
Viscosity:	270 mPa·s (at +23°C)

#### Properties of the cured membrane

Elongation at break: (ASTM D 412)	130%
Tensile strength: (ASTM D412)	20.5 N/mm <sup>2</sup>
Hardness according to SHORE D:	57
Water impermeability at hydrostatic pressure: (DIN 1048)	5 atm
Solar Reflectance (SR): (ASTM E903-96)	88%
Infrared Emittance: (ASTM C1371-04a)	0.91
Solar Reflectance Index (SRI): (ASTM E1980-01)	112
Adhesion: (EN 1542)	> 2 N/mm <sup>2</sup>
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 <sup>2</sup> ·h <sup>0.5</sup>
Permeability to CO <sub>2</sub> : (EN 1062-6, requirement Sd > 50m)	Sd = 184 m
Water vapor permeability: (EN ISO 7783-2, Class I, Sd < 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

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## 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 may hinder adhesion.
- Free of rust or corrosion that may hinder 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<sup>2</sup>/layer.

Application of TOP-COAT 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, at a consumption of approximately 200 g/m<sup>2</sup>.

### 2. Application

Before application, it is recommended to slightly stir TOPCOAT-PU 720, until it becomes homogeneous. Extensive stirring should be avoided in order to prevent air entrapment in the material.

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: approx. 0.12-0.25 kg/m<sup>2</sup>/layer, depending on the substrate.

Tools should be cleaned with SM-16 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

- 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.


## Volatile Organic Compounds (VOC)


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.

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 2032
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2032-CPR-10.11 DoP No.: TOPCOAT-PU 720/1838-01 <b>EN 1504-2</b> Surface protection products Coating Permeability to CO <sub>2</sub> : Sd > 50 m Water vapor permeability: Class I (permeable) Capillary absorption: w < 0.1 kg/m <sup>2</sup> ·h <sup>0.5</sup> Adhesion: ≥ 0.8 N/mm <sup>2</sup> Artificial weathering: Pass Reaction to fire: Euroclass F Dangerous substances comply with 5.3


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<b>EN 13813 SR-B2,0-AR0,5-IR8</b> Synthetic Resin screed material for use internally in buildings DoP No.: TOPCOAT-PU 720 / 1864-01 Reaction to fire: F <sub>fl</sub> 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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