

TOPCOAT-PU 720

Aliphatic, elastic, polyurethane top coat

Description

One-component aliphatic, elastic polyurethane top coat. TOPCOAT-PU 720 is UV-stable and thus used for the protection of exposed, polyurethane waterproofing coatings, especially if a dark final color is desired. It 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 with the CE marking as a surface protection product for concrete, according to EN 1504-2. Certificate Nr. 2032-CPR-10.11.

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 lots)

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

Technical data

Properties of the product in liquid form

Form:	polyurethane pre-polymer
Colors:	white, grey
Density:	1.16 kg/l
Viscosity:	270 mPa·sec (at +23°C)

Properties of the cured membrane

Elongation at break: (ASTM D 412)	130%
Tensile strength: (ASTM D412)	20.5 N/mm ²
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 E1980-0)	112
Adhesion: (EN 1542)	>2 N/mm ²
Abrasion resistance (EN 13892-4 (BCA))	AR 0.5
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 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 2000h)	Pass (no blistering, cracking or flaking)
Temperature resistance:	from -40°C to +90°C

Directions for use

1. Substrate preparation

The substrate must be completely dry, clean, free of grease, loose particles, dust etc. Polyurethane waterproofing coatings and metal surfaces do not require priming.

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Concrete surfaces must be treated with the polyurethane primer PRIMER-PU 100 in one coat, at a consumption of approximately 200 g/m².

2. Application

Before the 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 spraying in 1 or 2 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: approximately 0.12-0.25 kg/m² 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.

Storage

Shelf-life in sealed containers is at least 12 months, in frost-free and dry conditions.

Remarks

- TOPCOAT-PU 720 is not suitable for contact with chemically treated water of swimming pools.
- Temperature during the application and hardening of the product should be between +5°C and +35°C.
- Unsealed packages should be used as soon as they are opened and cannot be restored.

Volatile Organic Compounds (VOCs)

According to the 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.



2032

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

EN 1504-2

Surface protection products
Coating

Permeability to CO₂: Sd > 50m

Water vapor permeability: Class I (permeable)

Capillary absorption: w < 0.1 kg/m²·h^{0.5}

Adhesion: ≥ 0.8 N/mm²

Artificial weathering: Pass

Reaction to fire: Euroclass F

Dangerous substances comply with 5.3

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BUILDING CHEMICALS AND MORTARS

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