

TOPCOAT-PU 740

One-component, transparent, UV-stable, polyurethane topcoat

Description

TOPCOAT-PU 740 is a one-component, transparent, aliphatic, polyurethane topcoat. Based on hydrophobic polyurethane resins, it features excellent mechanical, chemical, thermal and weather resistance properties.

Forms a UV-stable, waterproof membrane while offering the following advantages:

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

Fields of application

TOPCOAT-PU 740 can be used as a sealing and protective coating for concrete, screed, wood, stone, industrial floorings, stamped concrete, microcement coatings, interior decorative epoxy floorings, etc.

Technical data

Properties of the product in liquid form

Form:	polyurethane prepolymer
Color:	transparent
Density:	0.98 kg/l
Viscosity:	110 mPa·s (+23°C)

Properties of the cured membrane

Elongation at break: (EN-ISO 527)	> 50%
Tensile strength: (EN-ISO 527)	29 N/mm ²
SHORE D hardness:	55 ± 3
Abrasion resistance: (ASTM D 4060, TABER TEST, 7 days, CS 17/1000/1000)	55 mg
Artificial weathering: (EN 1062-11, after 2000 h)	Pass (no blistering, cracking or flaking)

Adhesion: (EN 1542)	> 2 N/mm ²
Service temperature:	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.

2. Application

Before application, it is recommended to gently stir TOPCOAT-PU 740, until it becomes homogeneous. Excessive stirring should be avoided in order to prevent air entrapment within its mass.

TOPCOAT-PU 740 is applied with a brush, roller or spray in two layers. The second layer should be applied crosswise after 4-24 hours, depending on the weather conditions.

Consumption: approximately 0.12-0.25kg/m², depending on the substrate.

Tools should be cleaned with SM-28 solvent and while TOPCOAT-PU 740 is still fresh.

Packaging

TOPCOAT-PU 740 is supplied in 4kg and 20kg metal containers.

Shelf life – Storage

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

Remarks

- TOPCOAT-PU 740 is not suitable for contact with chemically treated water used in swimming pools.
- TOPCOAT-PU 740 can be colored with suitable pigment pastes. Please consult the Technical Support Department.
- Temperature during application and hardening should range between +5°C and +35°C.
- Unsealed containers should be used as soon as they are opened and cannot be restored.
- TOPCOAT-PU 740 is intended for professional use only.

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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 500g/l (2010) for the ready-to-use product. The ready-to-use product TOPCOAT-PU 740 contains a maximum of 500g/l VOC.



2032

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DoP No.: TOPCOAT-PU 740 / 1867-01

EN 1504-2

Surface protection products

Coating

Permeability to CO₂: Sd > 50m

Water vapor permeability: Class I (permeable)

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

Adhesion: $\geq 0.8 \text{ N/mm}^2$

Reaction to fire: Euroclass F

Dangerous substances comply with 5.3

ISOMAT S.A.

BUILDING CHEMICALS AND MORTARS

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