

TECHNICAL INFORMATION

FOR PROFESSIONAL USE ONLY

SPECOAT

2K POLYURETHANE PROTECTIVE COATING 3:1

PRODUCTS

SPEC 2K Polyurethane protective coating 3:1

SPEC Hardener 1:3 for 2K Polyurethane protective coating 3:1

PRODUCT DESCRIPTION

Two-component polyurethane coating with a textured finish, designed for the protection and decoration of concrete, steel, aluminum, and composite surfaces. It features excellent mechanical and chemical resistance, as well as long-lasting color and gloss retention. Thanks to its combination of high adhesion and flexibility, the product is ideal for both interior and exterior applications.



COLOUR: tintable

VOLATILE ORGANIC COMPOUNDS

VOC for the mixture = 389 [g/l]

The share of VOC for the mixture is below 840g/l. These products fulfill the EU directive (2004/42/WE) that sets the VOC value for this product category (kat.B/5), as 840 g/l.

SUBSTRATES AND PREPARATION

Concrete

Moisture content: 4% (CM method).

Remove dust, oils, and contaminants.

If necessary, apply **SPEC ISOPRIME WOOD SEALER** (primer sealer 1:1 with thinner). See TDS for details.

Polyester laminates / composites

Sand with P120–P240 grit paper until a uniform, matte surface is achieved.

Remove dust and degrease the surface.

Steel, aluminum, galvanized steel

Clean and degrease the surface.

Sandblast to Sa 2 or sand with P120–P240 grit.

For maximum adhesion, an epoxy primer or sealer is recommended.

USING

SPECOAT is recommended for:

- Protective coatings for concrete (floors, structural elements, walls, terraces)
- Protection of steel, galvanized, and aluminum structures
- Coatings on laminates and polyester materials
- Industrial and decorative applications with high resistance requirements.

TECHNICAL DATA

Parameter	ROLLER	BRUSH
Mixing ratio (vol.)	3:1	3:1
Number of layers	2	2
Recoating interval	after min. 24 h	after min. 24 h
Full cure	7 days	7 days
Coverage	13 m ²	13 m ²

APPLICATION PROCESS

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	MIXING RATIO	by weight	by volume		POT LIFE
	SPECOAT	790g to A	630ml		about 2,5-3h at 20°C
	Hardener	210g	210 ml		
	Stir thoroughly until achieving homogenous mixture.				

**HARDENING TIME****Touch dry:** 1 h**Service hardness:** 3 days**Full hardness (heavy-duty conditions):** 7 days

Temperatures below 20°C significantly extend the curing time.

COATING THICKNESS AND PERFORMANCE

Application method	Dry film thickness (DFT) [μm]	Theoretical consumption [l/m²]	Coverage [m²/l]
Roller	50 μm	0.1	approx. 13
Brush	120 μm	0.1	approx. 13

Theoretical data based on 100% efficiency. In practice, an additional 10–20% should be added to account for application losses.

APPLICATION CONDITIONS

- Ambient temperature: +10°C to +35°C
- Substrate temperature: min. +5°C and ≥ 3°C above the dew point
- Relative humidity: ≤ 80%
- Substrate must be dry, clean, and free from ice or frost
- Best results at 20–25°C

ANTI-SLIP ADDITIVE

To obtain an anti-slip coating, use the anti-slip powder:

- The package contains 10 g of additive for 1 kg / 840 ml of mixture.
- Add the content directly to the can, add hardener, and mix thoroughly for approx. 5 minutes.

GENERAL NOTES

- Component temperature should be above 15°C
- Mixing: Combine components A and B in a 3:1 volume ratio and mix thoroughly.
- Application: Roller, brush
 - Rollers for solvent-based paints (solvent-resistant)
 - Roller types: Woven or sheared polyamide (nylon) – high absorbency, uniform paint release.
 - Microfiber/polyamide blend – good strength and smooth texture.
 - Avoid foams, which can swell in solvents and entrain air into the product surface.
 - Pile length:
 - 6–9 mm – smooth/medium-smooth concrete;
 - 10–12 mm – rough, more absorbent concrete.
 - Brushes: Synthetic bristles for solvent-based paints (e.g., PET/PBT), flat/English shape.
- Apply evenly, using a crisscross technique, avoiding over-thickening.
- Tool cleaning: SPEC thinner immediately after use.
- Do not exceed the recommended amount of hardener.
- Ensure product and ambient temperatures are similar.
- Use appropriate personal protective equipment; protect eyes and respiratory system.
- Ensure good ventilation during application.
- Clean tools immediately after use.
- Avoid skin contact and inhalation of vapors.

Caution: To maintain safety, always follow the instructions given in the MSDS for the products.**STORAGE**

Store the product components in temperatures of 15 to 25°C, in a sealed container, in dry and cool places, away from fire and heat sources, as well as direct sunlight.

Note:

1. After each use the container with product should be immediately closed.
2. Protect the hardener from frost and dampness!

WARRANTY PERIOD

SPEC SPECOCAT 2K POLYURETHANE PROTECTIVE COATING	– 24 months from the date of production
SPEC HARDENER SPECOCAT 2K POLYURETHANE PROTECTIVE COATING	– 18 months from the date of production

PRODUCT	Art. No.
SPEC SPECOCAT 2K POLYURETHANE PROTECTIVE COATING+HARDENER (3,75+1KG)	17359+17360
SPEC SPECOCAT 2K POLYURETHANE PROTECTIVE COATING +HARDENER (15,8+4,2KG)	17297+17298

LIMITATION OF LIABILITY

The information contained in the TDS is up-to-date and correct on the day the information is released.

Because TROTON can not control or predict the conditions under which a product will be used, each user should review information in the specific context of the intended usage. To the maximum extent permitted by applicable law, TROTON shall not be liable for damages of any kind arising from the use or reliance on information contained in this TDS.

Given the variety of factors that can affect the usage and application of the TROTON product, some of which are only within the user's knowledge and control range, it is essential that the user evaluate the TROTON product to determine if the product is fit for a particular purpose and whether the product is suitable for the user's usage.

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All information are based upon the precise laboratory studies and many years of experience. The good market position does not release us from the constant supervision of our products quality. However, we are not responsible for the final effects of the improper storage or application of our products, as well as for work inconsistent with the good craft practice.

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