

PU Topcoat No Scratch 03

Polyurethane transparent non-yellowing finishing coat

Application area

To be applied as a matt, wear-resistant top layer on both epoxy and PU cast floors and sealed mortar floors.

Contact Sidec for application on other types of surfaces



Properties

PU Topcoat No Scratch 03 is a polyurethane transparent topcoat that does not yellow. This topcoat is suitable for application as a matt, wear-resistant finishing coat on synthetic resin floors.

- Scratch-proof
- Orange peel
- Very high UV resistance
- Very high wear resistance
- Easy to clean
- High chemical resistance
- Can be pigmented

Technical data

Pot-life	+/- 15 min*
Processing time	15 min*
Temperature range	15°C – 25°C
Maximum humidity	80% RH
Optimal conditions	18°C - 22°C, 40% - 60% RH
Colour	Transparent matt
Physical appearance	Opaque liquid
Viscosity	+/- 700 mPas (Anton Paar MCR 92 Shear Rate 100 1/s, 20°C)
Abrasion resistance	< 10 mg (Taber 1000 cycli 1 kg CS10)
Density	+/- 1.1 g/ml (20°C)
Vapour permeable	1 layer: Yes 2 layers: No
Adhesion	>B2.0 (NBN AND 13813)
Dust-dry	6 h*
Walkable	12 h*
Application 2nd layer	24 h*
Mechanically loadable	3 days*
Chemically loadable	7 days*
Consumption	100 g/m ²

* At a temperature of 22°C, 55% RH

Preparation and substrate check

PU Topcoat No Scratch 03 can only be placed on a fully cured synthetic resin floor system that is not older than 24 hours at the time of installation. Epoxy and PU floors older than 24 hours must first be lightly sanded. The surface must be grease-free, dust-free, and dry. All substances that could reduce the adhesion of the top coat must be avoided.

Conditions during application

Measure the humidity and temperature in the room. The humidity should not exceed 80% RH. The ideal conditions are a floor and ambient temperature of 18-22°C and humidity between 40% and 60% RH. Values above or below these ideal conditions affect the drying time. Higher humidity and/or temperature accelerate curing but also shorten processing time. Lower humidity and/or temperature slow down curing but extend processing time. Keep this in mind during application.

Processing

- Before starting the installation of PU No Scratch 03, you must tape off sides, skirting boards and drains.
- Mix up PU Topcoat No Scratch 03 for 3 minutes until a homogeneous mixture is obtained.
- Saturate a lint-free nylon roller with +- 300 g of the mixture.
- Then apply crosswise with firm pressure from a paint bucket or paint roller tray.
- After 15 minutes, finish crosswise with a dry, wide nylon roller, without applying pressure.
- Always perform the last movement in the same direction to avoid structure differences. When doing so, lift the roller when overlapping with the previous track.
- Remove the masking tape after application.
- After 24 hours, a second coat can be applied if necessary.

Colouring

- PU Topcoat No Scratch 03 can also be given another colour.
- Mix up PU Topcoat No Scratch 03 for 3 minutes until a homogeneous mixture is obtained.
- Add 750 gr. Sidec powder pigment and mix again to a homogeneous mixture.
- Then strain the mixture using nylon tights and apply as described under «Processing».

Points of attention

- Ensure adequate ventilation during curing.
- For a large area, please note that re-rolling is not done too long after application. If re-rolling is not possible after 15 minutes, differences in gloss may occur.
- For a large area, replace the paint rollers after 45 minutes.
- Once the entire floor has been cross-rolled, do not walk over the floor anymore. Work towards a door and demarcate the area so no one accidentally steps on the floor.
- There should never be more than 10 minutes between connections.

Packaging

PU Topcoat No Scratch 03	Sets of 5 kg	Metal can
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Chemical resistance

	48h	4 weeks
Mustard D&L	pale yellow	pale yellow
Red Wine	nd	nd
Coffee	nd	nd
Heinz Tom. Ketchup	nd	nd
Isobethadiene dermicum 10%	nd	sc
Permanent marker Artline 700N black	nd*	sd*
Liquid detergent	nd	nd
Fabric softener	nd	nd
Ammonia 10%	nd	nd
Javel °4	nd	nd
potassium hydroxide 50%	nd	nd
Vinegar 10%	nd	nd
Lactic acid 10%	nd	nd
Citric acid 10%	nd	nd
Phosphoric acid 10%	nd	nd
Acetone	nd	nd
sulphuric acid 37%	nd	nd
Brake oil DOT4	nd	nd
Coolant	nd	nd
Petrol 95	nd	nd
WD40	nd	nd

Legend

nd: No effect

sd: Slight softening

sc: Light discolouration

d: Full relegation

c: Discolouration

* heavily stained after cleaning with water, less stained after cleaning with ethanol

Cleaning

Clean the used tools with Cleaner EP or acetone. Cured product residues must be removed mechanically.

Storage and preservation

Shelf life: 6 months in a closed and original packaging when stored in a cool and dry place (10-25°C). If stored under lower temperatures, always allow PU Topcoat No Scratch 03 to acclimatise sufficiently before proceeding with application.

Safety measures

Read the safety sheets carefully before using PU Topcoat No Scratch 03. Always wear personal protective equipment according to the applicable local guidelines and legislation. Gloves and safety glasses are mandatory.

Technical support

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The latest version of this technical data sheet is available on our website.

