



Product information

4CR-Industry 73-135 EP 2K Topcoat semi-gloss/90 Floorcoat

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Version 2 / April 2020

Product description

EP 2K Topcoat with excellent resistance to chemical and mechanical strains, for coatings on mineral floors in garages and warehouses. This product can be applied either as smooth or as anti-slip coating.

Hardener

0451-355 EP Hardener fast, 0451-360 EP Hardener medium

Mixing ratio

Paint + hardener 2:1 by volume

Paint + hardener 3:1 by weight

Pot life

6 - 8 hours at 20 °C

Dilution

0530-440 EP Thinner, addition 0 - 10 %

Application method	Thinner	Pressure	Nozzle
Roll and brush*	0 - 10 %	-	-
*suitable : Short pile roller e.g velour; unsuitable: lambskin roller			

Processing conditions

Do not apply at an object temperature below + 10°C or above +30°C.

The substrate temperature must be minimum 3°C above the dew point temperature of the air during the application and drying process (DIN EN ISO 12944-7).

The relative air humidity must not exceed 80%.

Ensure adequate air ventilation.

Recommendation: at temperatures between +10 and +15°C use 0451-355 EP Hardener fast, at temperatures above +15°C use 0451-360 EP Hardener medium.

Application of primer and paint should only be done at constant or decreasing temperatures to reduce the risk of blistering due to air heating in the pores of the substrate. (This also applies to all indoor applications that are exposed to the sun).

DFT

100 - 120 µm

Consumption

4 - 5 m²/l

3,3 - 3,9 m²/kg



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Drying

Object temperature 20 °C

Dust free after 50 - 60 minutes

Set to touch after 8 - 10 hours

Ready for assembly after 48 hours

Recoat after 12 hours

When drying for more than 24 h, intermediate sanding is necessary. Fully cured after 7 - 8 days.

Technical specifications

Binder base: epoxy resin

Density DIN EN ISO 2811 (kg/l): 1,4 - 1,6

Solids content (% by volume): 44 - 47

Solids content (% by weight): 65 - 70

Delivery viscosity DIN 53211 4 mm (in s): 120 - 140

Gloss level ISO 2813 at 60° (GU): 50 - 60 semi-gloss

Short-term heat resistance: 180 °C

Permanent heat resistance: 150 °C

VOC regulation

EU limit value: Category A/j 500 g/l. This product, ready to use to roll and brush contains max. 500 g/l.

Features

excellent resistance to chemical and mechanical strains, highly abrasion resistant, adapted to fork lift traffic, adhesion on concrete.

Storage

At least 3 years in unopened original container

Substrate preparation

Substrate characteristics:

- mineral substrates (set, dimensionally stable, rough and solid) must be free from friable parts and other substances that may affect the adhesion (e.g. rubber marks, greases, oils, rust, dust and similar)
- The equilibrium moisture content must have been achieved (concrete, cement screed < 4% by weight, anhydrite screed < 0.3% by weight, magnesite floor < 4% by weight).
- The bond strength must be > 1.5 N/mm².
- The compression strength of the substrate must be > 25 N/mm².
- Ensure perfect insulation against earth moisture.

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Check for laitance or brittle, non-adherent layers:

- by scratching the surface with a sharp device or a needle at different spots.

Result:

- brittle layer of approx. 1mm underneath a thin hard surface

Repair:

- Remove area mechanically by shot-blasting or milling to a solid substrate.
- Remove area by acid washing (apply a solution of hydrochloric acid (10%), then wash again with clear water) to a solid substrate.

Check for dense concrete surfaces (smooth, hard and almost “shiny”):

- Test the absorbency by scratching and wetting at different spots.

Result:

- Only the scrapes become darker (indicates the absorption) and the area around the scratches show no absorption.

Repair:

- These dense layers must be removed mechanically by shot-blasting or milling until perfect absorbency is achieved.
- Remove area by acid washing (apply a solution of hydrochloric acid (10%), then wash again with clear water) until perfect absorbency is achieved.

Oil, grease, wax and residues of soapsuds:

- Wash by using a cleaning agent (do not use products which contain care additives such as wax, silicone, a.s.o.) and repeat the operation if necessary.
- Sometimes deep penetrated substrates are impossible to clean. Remove by milling heavily contaminated areas and renew.

The pores have to be open and free of dust:

- Clean the surface by using a powerful industrial vacuum cleaner. This is particularly important when the floor has been treated mechanically.

Old paintworks:

- Sand slightly well adherent 2K-coatings. Test compatibility (on a sample area).
- Damaged coatings must be removed completely (mechanically or by paint remover).

Proposed coating:

1. smooth coating

- 1 x priming coat with 73-135 EP 2K Topcoat semi-gloss incl.hardener, thinned 1:1 with 0530-440 EP Thinner
- 2 x finishing coat: 73-135 EP 2K Topcoat semi-gloss incl. hardener with 100 - 120 µm dry film thickness

anti-slip coating

- 1 x priming coat with 73-135 EP 2K Topcoat semi-gloss incl.hardener, thinned 1:1 with 0530-440 EP Thinner
- 1 x intermediate coat with 73-135 EP 2K Topcoat semi-gloss incl. hardener + 10 - 30% by weight quartz sand
- + 0 - 10 % 0530-440 EP Thinner

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1 x finishing coat with 73-135 EP 2K Topcoat semi-gloss incl. hardener + 0 - 10 % 0530-440 EP Thinner

Processing tips

For professional use only.

Check colour prior to application.

Mix the product with the hardener thoroughly using a low speed electric stirrer (less than 400 RPM). Pour the mixed material in a new clean container and mix again thoroughly. Make sure that both components have been mixed sufficiently - if not, this could result in staining and changed drying properties.

In case of adjacent surfaces use only the material of one batch number or intermix different batches to obtain the required quantity.

Cleaning of tools

Clean tools immediately after use with 0530-440 EP Thinner.