



Product information

4CR-Industry 72-160 AC 2K Topcoat RB silk-mat/30 Floorcoat

Page 1 / 4

Version 2 / April 2020

Product description

2K-polyurethane acrylic paint with long open time for the top-quality coating of mineral floors in garages, warehouses or parking garages. Optionally applicable as smooth coating or as coating with non-slip properties. Also suitable for exterior use (e.g. balconies).

Hardener

0409-350 AC Hardener R+B

Mixing ratio

Paint + hardener 8:1 by volume

Paint + hardener 10:1 by weight

Pot life

6 - 8 hours at 20 °C

Dilution

0505-2 AC Thinner fast, 0505-3 AC Thinner, 0505-4 AC Thinner slow, addition 0 - 10 %

Application method

Roll* and brush

* short pail paint roller e.g. velour

Thinner

0 - 10 %

Processing conditions

Do not apply at a temperature below +10 °C and above +30 °C (object temperature).

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.

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 application that are exposed to the sun).

DFT

50 - 60 µm

Consumption

5,0 - 7,6 m²/l

3,5 - 5,3 m²/kg

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Product information

4CR-Industry 72-160 AC 2K Topcoat RB silk-mat/30 Floorcoat

Page 2 / 4

Version 2 / April 2020

Drying

Object temperature 20 °C

Dust free after 1,5 - 2 hours
Set to touch after 8 - 10 hours
Ready for assembly after 24 hours

Fully cured after 5 - 6 days (20 °C).

Technical specifications

Binder base: polyurethane acrylic system
Density DIN EN ISO 2811 (kg/l): 1,4 - 1,5
Solids content (% by volume): 54 - 59
Solids content (% by weight): 71 - 76
Delivery viscosity DIN 53211 4 mm (in s): Thixotropic
Gloss level ISO 2813 at 60° (GU): 20 - 30 silk-mat
Short-term heat resistance: 180 °C
Permanent heat resistance: 150 °C

VOC regulation

EU limit value: Category A/j 500 g/l. This product with 0409-350 AC Hardener R+B, ready to use to roll and brush contains max. 400 g/l.

Features

Long open time, high-build coating, electrostatic application possible, highly resistant to water, highly UV- and weather-resistant, resistant to plasticizers and 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.

Check for laitance or brittle, non-adherent layers:

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

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Product information

4CR-Industry 72-160 AC 2K Topcoat RB silk-mat/30 Floorcoat

Page 3 / 4

Version 2 / April 2020

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

smooth coating

1 x priming coat: 72-160 AC 2K Topcoat RB silk-mat with hardener, thinned with 20 - 30 % 0505-X AC Thinner

2 x finishing coat: 72-160 AC 2K Topcoat RB silk-mat with hardener, thinned with 0 - 10 % 0505-X AC Thinner

80 - 120 µm total film thickness

non-slip coating

1 x priming coat: 72-160 AC 2K Topcoat RB silk-mat with hardener, thinned with 20 - 30 % 0505-X AC Thinner

WWW.4CR.COM



Product information

4CR-Industry 72-160 AC 2K Topcoat RB silk-mat/30 Floorcoat

Page 4 / 4

Version 2 / April 2020

1 x intermediate coat: 72-160 AC 2K Topcoat RB silk-mat with hardener + 10 - 30 % by weight quartz sand + 0 - 10 % 0505-X AC Thinner

1 x finishing coat: 72-160 AC 2K Topcoat RB silk-mat with hardener, thinned with 0 - 10 % 0505-X AC Thinner

80 - 120 µm total film thickness

Processing tips

For professional use only.

Check colour shade prior to application.

Mix the hardener with product using a low speed electric stirrer (< 400 rpm). Transfer the mixture in another container and stir again thoroughly. Make sure that both components have been mixed sufficiently - if not, this could result in staining and in changing the drying properties.

In case of very alkaline substrates (e.g. fresh concrete or screed) apply a priming coat with 73-13X EP 2K Topcoat (+ 20% 0530-440 EP Thinner).

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

Depending on the hardener in use and on the processing condition, the gloss level may prove to be higher or lower. The mentioned data refer to the hardener 0407-3 AC Universal Hardener medium.

Cleaning of tools

Clean tools immediately after use with Nitro-Thinner.