

CONIFLOOR EP 570 C (old CONIFLOOR 570 C)

Two-part EP resin roller coating, highly pigmented, hard, low emission, for additional filled self-levelling coating or thin layer roller coating and top coats, (total solid)

Product description

CONIFLOOR EP 570 C is a two component, [highly pigmented, low emission and hard](#) epoxy roller coating for cementitious based substrates indoor, "Total Solid accord. to the test methods Deutsche Bauchemie e.V."

Fields of application

CONIFLOOR EP 570 C is used as [a thin layer roller coating](#) or as additional [fillable self-levelling coating](#) on mineral substrates primed with CONIFLOOR EP 110, EP 112, EP 116LE or in special applications, cementitious substrates could be primed directly with CONIFLOOR EP 570 C for indoor floors with low to medium mechanical stress. Furthermore, it can be used as [top coat on](#) with quartz sand [broadcasted coatings](#).

Properties

CONIFLOOR EP 570 C exhibits high mechanical properties and is easy to apply.

CONIFLOOR EP 570 C is easy to clean and resistant to water, sea and waste water, a variety of alkaline substances, diluted acids, brine, mineral oils, lubricants and fuels.

The yellowing, which occurs when CONIFLOOR EP 570 C is exposed to UV light, does not affect its mechanical properties, indoor, the colour stability is good. By using the coloured, UV- and colour stable matt sealing lacquer with CONIFLOOR 520 CW yellowing can be avoid and scratch resistance can be increased.

CONIFLOOR EP 570 C is used in the systems

- CONIFLOOR IEL
- CONIFLOOR IEL SR
- CONIFLOOR IES SR
- CONIFLOOR IPS SR

and other systems.

Technical Data

Mixing ratio	in parts by weight			100 : 25
Density	mix,	at 23 °C	g/cm ³	1.39
Viscosity	mix,	at 23 °C	mPas	1400
Pot Life	at 20 °C		min. approx..	25
Re-coating interval / ready for foot traffic	at 20 °C		minimum h	12
			maximum h	48
Substrate and application temperature	minimum		°C	10
	maximum		°C	30
Permissible relative humidity	maximum		%	75
Ready for	mech. stress	at 20 °C	d	3
	light mech. stress	at 20 °C	d	1
	chem. stress	at 20 °C	d	7
Shore D hardness	after 28 d			82
Above figures are guide values and should not be used as a base for specifications!				

Application method

Please also [note the information in our general processing guidelines](#).

CONIFLOOR EP 570 C is supplied in the correct proportions of component A (resin) and component B (hardener).

Before mixing, the A component must be stirred up by machine, then the B component is poured into the container of the A component.

Care must be taken to ensure that the B component leaks completely, while carefully scraping out the container of spatulas. First, the B component is poured into the container of the A component. Care must be taken to ensure that the B component leaks completely, while carefully scraping out the container of spatulas.

To achieve a homogenous mix, thoroughly mix with a slowly rotating mixing device at about 300 rev/min.

Ensure that the mixing device reaches side and bottom areas of the mixing vessel.

The **mixing** process takes **at least 3 minutes** and should be performed until the blend is **homogenous** and streak free.

Pour the mix into another **clean** pail and mix it again for 1 additional minute.

The **temperature** of the components should be between +15 - +25°C.

CONIFLOOR EP 570 C can then be applied **directly to the pre-treated cementitious substrate** as primer when **substrate do not exceed residual moisture content ≤ 4 % and no rising water is available**. Otherwise CONIFLOOR EP 570 C should be applied on a with CONIFLOOR EP 110, EP 112 or EP 116LE primed substrate. CONIFLOOR EP 570 C should be applied by squeegee working crosswise and finished off lengthwise using a lint-free paint roller. Details for tools you can find in the system data sheet.

The ambient and substrate temperature influences working life and curing time of CONIFLOOR EP 570 C. At low temperatures, the chemical reactions are slowed down; this lengthens the pot life, re-coating interval and open time. High temperature and humidity accelerate chemical reaction so the contrary is true.

To fully cure the material, the substrate and working temperature must not fall below the minimum.

Consumption for roller coating and as primer:

The **consumption** rate of CONIFLOOR EP 570 C as **roller coating** is **minimum 0.3 to 0.4 kg/m²** for each coat. If using CONIFLOOR EP 570 C on cementitious substrates as primer, please pay attention of a non-porous and film forming application. Depending on consumption and substrate the roller coating can have a **slightly structure**.

To increase slip resistance and the scratch resistance CONIFLOOR EP 570 C can be additional filled with Ballotini in size Ø 250 – 425 µm or minimum Ø 200 – 300 µm with min. 5% up to 20 %. For application technology and consumption please ask our technical service for more information.

Consumption for self-levelling

The **consumption rate** of CONIFLOOR EP 570 C for a layer of e.g.: **2.00 mm thickness is minimum 1.76 kg/m²** CONIFLOOR EP 570 C and max. 1.56 kg/m² oven-dried quartz sand with a grain size of e.g.: 0.1-0.3 mm and a

mixing ratio of 1 : 0.8. The mixing ratio of binder : quartz sand can be 1 : 0.3 up to 1 : 0.8 depending on required layer thickness, material and ambient temperature and consumption rate. For self-levelling applications with a high filling grade or at lower temperatures we recommend to use a spike roller to help the material for de-aeration.

Usage as a top coat on with QS broadcast coatings

If CONIFLOOR EP 570 C is used as **top coat** in the CONIFLOOR IPS SR or IES SR system build-up (non-slip scattered coatings), the consumption is **0.400 - 0.900 kg/m²**, depending on the required slip resistance level and the used broadcasting grain size. More detailed information can be found in the description of the system data sheet or the test reports.

In case of doubt, we recommend creating sample areas on site to assess the surface and to determine the actual consumption values.

Substrate condition

Cement bound substrates to be coated must be firm, dry, load bearing and free of loose and brittle particles and substances, which impair adhesion such as oil, grease, rubber skid marks, paint or other contaminants.

A pre-treatment of the substrate by grit or shot blasting, high pressure water jetting, grinding or scabbling including the necessary post-treatment is mandatory.

After the pre-treatment the bond strength of the concrete must be at least 1.5 N/mm².

The residual **moisture level** must not exceed **4 %**.

The **temperature** of the substrate must be at least **3°C** above the current dew point temperature.

The subbase must contain a moisture barrier (damp proof membrane D.P.M.) or a blocking primer must be installed.

CONIFLOOR EP 570 C is applied on the pre-treated and primed sub-base. Re-usable tools should be cleaned carefully with CLEANER 45 or e.g., isopropanol.

After application, the material should be protected from direct contact with water for approx. 24 hours (at 20 °C). Within this period, contact with water can cause carbamate and/or tackiness on the surface of the coating.

The relative **humidity** level may not exceed **75%**.

After the pre-treatment, the bond strength of the concrete must be at least 1.5 N/mm². For the rest the sections of the requirements concerning substrates to be coated shown in the according guidelines apply.

Pack size

CONIFLOOR EP 570 C is supplied in 10 kg and 25 kg (metal) working packs. Components A and B are supplied in the correct proportions and delivered separately.

Colour

Standard stock colours: ca. RAL 7037, Goosewing Grey (BS 00 A 05) or ca. RAL 7035 (grey)
further colours upon request.

Storage

Store in unopened pails under dry conditions at a temperature range of 15 until 25 °C.

Do not expose to direct sunlight.

Before use, please see "best before" date on the pail / drum

Safety precautions

CONIFLOOR EP 570 C is non-hazardous in its cured condition.

For protective measures, transport regulations and waste management please refer to the Material Safety Data Sheet of the product.

VOC contents

CONIFLOOR EP 570 C meets the requirements of the EC directive 2004/42/EC.

The limit value for products ready for use (product type according to table IIA j Type sb) is:

Level II (from 2010) <500 g/l VOC.

When ready to use, this product contains less than 500 g/l VOC.

**CE and UKCA marking:**

See Declaration of Performance

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