

# CONIFLOOR 585/1 C

**Two part Polyaspartic resin top coat, coloured, low temperature and fast curing, solvent free, low emission, UV- and colour stable as top coat for with quartz sand broadcast coatings**

## Material description

CONIFLOOR 585/1 C is a **low emission**, solvent-free and low-viscosity, **coloured, non-yellowing**, two-component top coat for decorative coloured quartz sand floors based on **Polyaspartic** resin.

## Areas of application

CONIFLOOR 585/1 C is mainly used as wear resistant, coloured top coat for mainly indoors as a non-yellowing top coat for with **quartz sand broadcasted floors**. If used as roller coating on smooth surfaces a slightly structure from roller will be visible.

## Properties

CONIFLOOR 585/1 C is low emission, solvent-free, non-yellowing, low-viscosity and therefore has a high capillary activity.

CONIFLOOR 585/1 C is distinguished by very good mechanical properties after curing. It is water-, seawater- and waste-water-resistant as well as resistant to a variety of alkalis, diluted acids, salt solutions, mineral oils, lubricants and fuels.

CONIFLOOR 585/1 C is used in the systems

- CONIFLOOR IEL SR
- CONIFLOOR IPS SR
- CONIFLOOR IPS SR rapid

and other systems.

## Technical data

<b>Ratio of ingredients</b>	Parts by weight comp.	A : B	100 : 45
<b>Density</b>	Mixture, at 23 °C	g/cm <sup>3</sup>	1.44
<b>Viscosity</b>	Mixture, at 23 °C	mPas	900 - 1000
<b>Processing time (10 kg unit)</b> (Pre-reaction in the container shortens the actual processing time)	at 8 °C / 60 % relative humidity at 20 °C / 60 % relative humidity at 30 °C / 75 % relative humidity	min. min. min.	min. 15 min. 10 min.- 5
<b>Re-coating interval / ready for foot traffic</b> (Depending on layer thickness and air humidity)	at 8 °C / 60 % relative humidity at 20 °C / 60 % relative humidity at 30 °C / 75 % relative humidity	h h h	min. 3.5 min. 2.0 min. 1.5
<b>Property and application temperature</b>	minimum maximum	°C °C	5 25
<b>Permissible relative humidity</b>	maximum	%	80
<b>Fully cured:</b>	<b>mech. stress</b> <b>chem. stress</b>	at 20 °C at 20 °C	d d
<b>Shore D hardness</b>	after 7 d / 23 °C		≥ 53
<b>Bond strength</b> (depending on substrate)		N/mm <sup>2</sup>	≥ 1.5
<b><i>These figures are approximate values. The values are not to be used to create specifications!</i></b>			

## Application instructions

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

CONIFLOOR 585/1 C is supplied in the appropriate ratio of component A (resin) and component B (hardener).

### Mixing process

The [temperature](#) of the two components during the mixing process should be between 5 and max. 25 °C. First, pour the B-component into the container of the A-component. Ensure that the B-component runs out completely, and carefully scrape out the container with a spatula.

To achieve a homogeneous consistency and a good mixing, the two components must be thoroughly mixed with a slow-running stirrer at approx. 300 rpm. The bottom and peripheral areas of the mixing vessel must also be covered.

The [mixing process](#) must be carried out for approx. [2-3 minutes](#) until it is homogeneous and streak-free. Then [transfer](#) to a second, clean container and mix again for another minute to avoid incomplete mixing.

After mixing, empty the material quickly from the container and distribute it immediately, [do not leave the mixture to stand too long as the pre-reaction in the mixing container shortens the actual processing time](#).

### Required amount

#### Primer:

As a rule, an epoxy resin primer, e.g. CONIFLOOR 110 or 116LE should be used. Consumption is around 0.3-0.5 kg/m<sup>2</sup>, depending on the property conditions and the nature of the surface. The primer is then broadcast with quartz sand 0.3-0.8 mm at approx. 0.8-1.0 kg/m<sup>2</sup>.

#### Scratch / levelling coat / wear coat with CONIFLOOR 110 or 116 LE if necessary:

A grain size of 0.1-0.3 mm or 0.1-0.4 mm is recommended for filling CONIFLOOR 110 or CONIFLOOR 116 LE as a scratch / levelling coat with fire-dried quartz sand. In addition, a large grain size 0.3-0.8 mm or 0.6-1.2 mm is added, depending on the desired layer thickness. The litter layer is scattered in excess with quartz sand with a grain size of 0.3-0.8 mm, the non-integrated quartz sand is swept away after it has hardened and the surfaces are sanded and vacuumed.

#### Wear coat:

For the wear coat, e.g. the self-levelling coatings CONIFLOOR 420 or CONIFLOOR 430 are filled with fire-dried quartz sand 0.1-0.3 mm if necessary and depending on temperature and consumption.

Immediately after the application of the coating, QS 0.3-0.8 mm or 0.6-1.2 mm is broadcast in excess (approx. 3.5-6.0 kg/m<sup>2</sup>).

#### Coloured top coat for broadcast systems:

Before applying the coloured top coat with CONIFLOOR 585/1 C, excess grain must be removed from the surface.

The top coat is preferably applied plaster-free with a rubber squeegee (e.g. white neoprene rubber) followed by finishing with a lint-free nylon or micro fibre roller.

[To avoid roll-ons, gloss differences and microbubbles, the work-up and re-coating with paint rollers must not exceed approx. 3-5 minutes.](#)

Depending on the grain size of the spread or grade of grinding, the required amount is at least approx. 400 g/m<sup>2</sup> to max. approx. 900 g/m<sup>2</sup>.

The quantities are [reference values](#). Exact required amounts, if required, must be determined on the property using sample surfaces following substrate pre-treatment.

[To prevent](#) blistering caused by rising trapped air, CONIFLOOR 585/1 C should be applied at constant or [falling temperatures](#). This is particularly important for outdoor applications.

### Temperatures

Both the [processing time](#) of CONIFLOOR 585/1 C and the [hardening](#) of the coating is essentially [determined by the temperature of the material, the substrate and the environment](#). At low temperatures, the chemical reactions are generally delayed. This also extends the pot life time, the walkability and the recoating times. [At high temperatures and high humidity's, the chemical reactions and thus the curing are accelerated, so that named times are shorten accordingly!](#)

[Here again the note that the work-up and re-coating with paint rollers must not exceed approx. 3-5 minutes.](#)

[The paint rollers should be changed regularly, we recommend doing this after approx. 20 minutes.](#)

### Cleaning agent

On completion of work and in the event of work interruptions, all tools intended to be used again must be cleaned with Cleaner 44 or, e.g., isopropanol.

### Subsurface condition

Cement-bonded substrates must be solid, dry, finely roughened and load bearing; they should be free from cement-bonded layers, loose and crumbly parts, as well as substances with a separating effect such as oil, grease, rubber abrasion, and paint residues or similar.

The substrate is preferably pre-treated by dust-free shot peening; and if required, by milling and subsequent shot peening or grinding with a final suction of the surface to be coated.

The **substrate** to be coated must have an average **bond strength** of at least 1.5 N/mm<sup>2</sup> (check, e.g., with Herion equipment, pulling speed 100 N/s).

The **residual moisture** in the substrate must not exceed 4 %.

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

The substrate to be coated must be protected against rising humidity (pressurised water).

The relative **humidity** level may not exceed 80%.

### Pack size

CONIFLOOR 585/1 C is supplied in units of 10 kg. A- and B-components are filled at a specific mixing ratio in separate containers.

### Colour

Coloured, colours on request

### Storage

Well-sealed original containers must be stored in a dry place between 15 and 25 °C.

Avoid direct sunlight and temperatures below the storage temperature.

Before using the product, please check the expiry date indicated on the container.

### Physiological behaviour and protective measures

When cured, CONIFLOOR 585/1 C is physiologically harmless.

The protective measures required during application as well as transport regulations and disposal instructions are taken from the current safety data sheets of the product.

### VOC content label:

CONIFLOOR 585/1 C meets the requirements of EU 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 marking:

See Declaration of Performance

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