

CONIFLOOR PAS 585 C LE

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

Areas of application

CONIFLOOR PAS 585 C LE is used as a wear-resistant, coloured top coat mainly indoors but also outdoors as a UV and colour stable, pigmented top coat on coatings sprinkled with quartz sand. In case of an application as a roller coating on homogeneous coatings or primers, a slight structure remains visible depending on the layer thickness.

Properties

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

CONIFLOOR PAS 585 C LE 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 PAS 585 C LE is used in the systems

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

and other systems.

Technical data

Ratio of ingredients	Parts by weight comp.	A : B	100 : 55
Density	Mixture, at 23 °C	g/cm ³	1.36
Viscosity	Mixture, at 23 °C	mPas	ca. 740
Processing time (10 kg unit) (Skin formation on the surface possible with a longer service life of the mixed material)	at 8 °C / 60 % relative humidity at 20 °C / 60 % relative humidity at 25 °C / 75 % relative humidity	min. min. min.	min. 45 min. 30 min. 12
Ready for foot traffic (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
Re-coating interval (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 – max. 18 min. 2.0 – max. 16 min. 1.5 – max. 12
Property and application temperature	minimum maximum	°C °C	5 25
Permissible relative humidity	maximum	%	75
Fully cured: mech. stress chem. stress	at 20 °C at 20 °C	d d	1.5 - 2 5
Shore D hardness	after 7 d / 23 °C		≥ 63
Bond strength (depending on substrate)		N/mm ²	≥ 1.5
<i>These figures are approximate values. The values are not to be used to create specifications!</i>			

Application instructions

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

CONIFLOOR PAS 585 C LE 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.

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.

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 EP 110, EP 712, EP 716, or EP 116LE should be used. Consumption is around 0.3-0.5 kg/m², 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/m².

Alternatively, the [fast-curing primer CONIFLOOR PAS 111 LE](#) can be used, the consumption here is approx. 0.3-0.5 kg/m², here a sand broadcasting is only necessary if required.

Wear coat:

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

Alternatively, the fast-curing CONIFLOOR 465 coating can be used here.

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/m² depending on consumption of wear coat).

Coloured top coat for broadcast systems:

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

Before applying the pigmented top coat with CONIFLOOR PAS 585 C LE, the non-integrated excess quartz sand must be removed from the surface and the surface vacuumed.

The application of the sealing is preferably carried out free of puddles with a soft or hard rubber squeegee (e.g., white neoprene rubber, blue or red plastic squeegee / multitool) or a stainless-steel blade and, if necessary, with subsequent re-rolling with a lint-free nylon or microfiber roller.

In order [to avoid rolling approaches, gloss level differences and microbubbles](#), processing and post-finishing with ink rollers must [not exceed 3-5 minutes](#).

Depending on the grain size or the degree of grinding of the dispersion, the consumption is at least approx. 0.400 kg/m² to a maximum of 0.900 kg/m².

Pigmented roller coatings / thin coatings:

The use of pigmented top coat with CONIFLOOR PAS 585 C LE as roller coating or thin layer coating is generally possible. Care must be taken to ensure that the revision times of the underlying primers are adhered to or that the primers must be sanded and cleaned well. In general, this application is only recommended for light to medium mechanical loads.

The top coating or thin coating (approx. 300 – 1,000 g/m²) is distributed by means of notched rubber squeegee or metal rake and immediately rolled back by means of a microfibre roller (< 3-5 min).

Depending on the layer thickness and substrate, [light structures in the final coating cannot be ruled out](#).

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 PAS 585 C LE should be applied at constant or [falling temperatures](#). This is particularly important for outdoor applications.

Temperatures

Both the [processing time](#) of CONIFLOOR PAS 585 C LE 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, Cleaner 45 or, e.g., butyl acetate.

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/mm² (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 PAS 585 C LE is supplied in units of 10 kg. A- and B-components are filled at a specific mixing ratio in separate containers.

Colour

Standard approx. RAL 7035, RAL 7032, RAL 7040, other colours on request

In order to ensure a uniform colouring of the surface, CONIFLOOR PAS 585 C LE should only be processed from one production batch.

When processing different batches on the same project, several containers must be divided and mixed together at the transition to the next batch, so that a smooth transition can be produced. Alternatively, a deliberate working seam (day section) or dividing rail can be planned at the transition.

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 PAS 585 C LE 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 PAS 585 C LE 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 and UKCA marking:

See Declaration of Performance

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