

# CONIFLOOR PAS 585 LE

Two-part Polyaspartic resin top coat, transparent, low temperature and fast curing, solvent free, low emission, UV- and colour stable as top coat for decorative coloured quartz floors and colour flake floors (in excess)

## Material description

CONIFLOOR PAS 585 LE is a low emission, solvent-free and low-viscosity, transparent, non-yellowing, two-component top coat for decorative coloured quartz sand floors or in excess broadcasted colour flake floors, based on aliphatic Polyaspartic resin.

## Areas of application

CONIFLOOR PAS 585 LE is used as a wear-resistant, transparent deck seal, mainly indoors as UV and yellowing tablets, deck sealing on coatings sprinkled in excess with colour quartz sand or colour chips.

## Properties

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

CONIFLOOR PAS 585 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 LE is used in the system

- CONIFLOOR COLORQUARZ
- CONIFLOOR COLORQUARZ LE
- CONIFLOOR COLORQUARZ LE AS-ESD

and other systems.

## Technical data

<b>Ratio of ingredients</b>	Parts by weight comp.	A : B	100 : 85
<b>Density</b>	Mixture, at 23 °C	g/cm <sup>3</sup>	1.08
<b>Viscosity</b>	Mixture, at 23 °C	mPas	500
<b>Application time (10kg unit)</b> (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 30 °C / 75 % relative humidity	min. min. min.	45 30 12
<b>Accessibility</b> (Depending on layer thickness and 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	%	75
<b>Fully cured:</b>	<b>mech. stress</b> <b>chem. stress</b>	at 20 °C at 20 °C	d d
			1.5 - 2 5
<b>Shore D hardness</b>	after 7 d / 23 °C		≥ 65
<b>Bond strength</b>		N/mm <sup>2</sup>	≥ 1.5

*These figures are approximate values. The values are not to be used to create specifications!*

## Application instructions

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

CONIFLOOR PAS 585 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.

[Note: If the storage time is longer](#) or the storage temperature is fallen short of, [a minimal cloudy sediment may form in component A, this must not be stirred up](#). In this case, we recommend pouring part A into a clean mixing vessel before mixing and only then adding part B and mixing as indicated above. This small lack of component A does not cause any reaction problems.

### Required amount

#### Primer:

On cementitious substrates, an epoxy resin primer e.g., CONIFLOOR EP 110, EP 112 LE or 116 LE or others is usually used. Depending on the conditions of the object and the substrate, the consumption is approx. 0.3-0.5 kg/m<sup>2</sup>. Subsequently, the primer is sanded specifically with quartz sand 0.3-0.8 mm with approx. 0.8-1.0 kg/m<sup>2</sup>. Alternatively, the fast-curing primer CONIFLOOR PAS 111 LE can be used, the consumption here is about 0.3-0.5 kg/m<sup>2</sup>, here a sanding is only necessary if necessary.

#### Scratch / levelling coat / wear coat with CONIFLOOR EP 550 or EP 116 LE:

A grain size of 0.1-0.3 mm or 0.1-0.4 mm is recommended for filling CONIFLOOR EP 550 or CONIFLOOR EP 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.

#### Coloured quartz flooring:

For colour quartz coatings, a wear coat with CONIFLOOR EP 550 or CONIFLOOR EP 116 LE is filled with fire-dried quartz sand 0.1-0.3 mm and 0.3-0.8 mm.

The wear coat is drawn over the largest grain by means of a screed or surface squeegee. After a short waiting time (5 – 10 min), 0.3-0.8 mm is scattered in excess with colour quartz of the grain size, the unintegrated quartz sand is swept away after hardening and the surfaces are sanded over and vacuumed if necessary.

#### Transparent top coat for broadcast systems:

Before applying the transparent top coat with CONIFLOOR PAS 585 LE, the unintegrated excess quartz sand must be removed from the surface and the surface vacuumed.

The application of the sealing is preferably carried out free of bars with a soft or hard rubber squeegee (e.g., white neoprene rubber, blue or red plastic squeegee / multitool) or a stainless-steel blade.

[Only if necessary](#), re-sizing 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 of the dispersion, the consumption is at least [approx. 0.400 kg/m<sup>2</sup> to a maximum of 0.900 kg/m<sup>2</sup>](#).

When used on a gradient coating scattered in excess with colour chips, the colour chips must be swept away, then briefly over-sanded or repel the surface by means of a metal scraper and cleaned with an industrial vacuum cleaner. The consumption of this application is in the range of 150 – 300 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 PAS 585 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 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 must be changed regularly](#) as they can already start hardening at the edges and cause rolling attachments or bubble formation. [We recommend doing this after about 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 REINIGER 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 PAS 585 LE is supplied in units of 10 kg. A- and B-components are filled at a specific mixing ratio in separate containers. Bigger units are possible on request.

## Colour

Transparent

## 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 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 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 marking:

See Declaration of Performance

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