

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 top coat mainly indoors as UV and colour stable, on coatings scattered with coloured quartz sand or colour flakes in excess.

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

Ratio of ingredients	Parts by weight comp.	A : B	100 : 85
Density	Mixture, at 23 °C	g/cm ³	1.08
Viscosity	Mixture, at 23 °C	mPas	500
Application time (10kg 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 30 °C / 75 % relative humidity	min. min. min.	45 30 12
Accessibility (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
Re-coating interval (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 – 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		≥ 65
Bond strength		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 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.

Consumption

Primer:

On cementitious substrates, an epoxy resin primer, e.g., CONIFLOOR EP 110, EP 712, EP 716 or EP 116 LE or others, is usually used. [Depending on the object conditions](#) and substrate conditions, the consumption is approx. 0.3-0.5 kg/m². Subsequently, the primer is sanded specifically with quartz sand 0.3-0.8 mm with 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 sanding is optional necessary.

Scratch / levelling filler / bedding layer with CONIFLOOR EP 550 N or EP 116 LE if necessary:

For the filling of CONIFLOOR EP 550 N or CONIFLOOR EP 116 LE as scratch/levelling coat with oven-dried quartz sand, a grain size of 0.1-0.3 mm or 0.1-0.4 mm is recommended. In addition, a maximum grain of the grain size 0.3-0.8 mm or 0.6-1.2 mm is mixed in depending on the desired layer thickness. The wear coat is drawn over the largest grain by means of a grape or surface squeegee. After a short waiting time (5 – 10 min), the wear coat is broadcasted in excess with quartz sand with a grain size of 0.3-0.8 mm, the non-integrated quartz sand is swept away after hardening and the surfaces are sanded over and vacuumed.

Colour quartz coverings / wear coat:

For colour quartz coatings a wear coat with CONIFLOOR EP 550 N or CONIFLOOR EP 116 LE is filled with oven-dried quartz sand 0.1-0.3 mm and 0.3-0.8 mm. The wear coat layer is drawn over the largest grain by using a trowel or smoothing rake (metal). After a short waiting time (5 – 10 min), the wear coat is broadcasted in excess with coloured quartz sand with a grain size of 0.3-0.8 mm, the non-integrated quartz sand is swept away after hardening and the surfaces are sanded over if required and vacuumed.

Transparent topcoat for colour quartz coatings:

Before applying the transparent topcoat with CONIFLOOR PAS 585 LE, the non-integrated excess quartz sand must be removed from the surface and the surface vacuumed.

The application of the topcoat is preferably puddles free with a soft or hard rubber squeegee (e.g., white neoprene rubber, blue or red rubber blade / multitool) or a stainless-steel trowel.

[Re-roll](#) with a lint-free nylon or microfibre roller [only if necessary](#).

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

Depending on the size of the dispersion, the consumption is at least approx. [0.400 kg/m² to max. 0.900 kg/m²](#).

When applied to a gradient coating scattered with colour flakes in excess, the not integrated colour flakes must be swept away, then briefly sanded over or repelled by means of metal scrapers and cleaned with an industrial vacuum cleaner. [The consumption of this application is in the range of 150 – 300 g/m²](#). Due to the fast response time, a thick-layer application as [a self-levelling top layer](#) is [not recommended](#).

The [quantities are indicative](#). If required, exact consumption values are to be determined on the object on the basis of sample surfaces after substrate pre-treatment.

CONIFLOOR PAS 585 LE should be applied at constant or falling temperatures to prevent blistering caused by ascending, trapped air. This is particularly important when used outdoors.

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 CLEANER 40, 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 silicone, 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 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 and UKCA marking:

See Declaration of Performance

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