

CONIFLOOR PU 541 CW AS

Two-part PUR sealing lacquer, antistatic, pigmented, water based, very low emission, UV- and colour stable, with silk-mat finish for elastic CONIFLOOR PUR coatings accord. to EN 1815

Product description

CONIFLOOR PU 541 CW AS is an aliphatic, high-quality, pigmented, solvent-free, low-emission, low-viscosity, elastic, water-based 2K PUR sealant with antistatic, mat surface.

Fields of application

CONIFLOOR PU 541 CW AS is generally used for the production of coloured, antistatic sealing lacquers on elastic (non-conductive) coatings indoors. Suitable for areas in which a low electrostatic charge (< 2 kV body voltage) is required in accordance with DIN EN 1815 (walking test).

Properties

CONIFLOOR PU 541 CW AS has a good adhesive spectrum on elastic coatings such as CONIFLOOR 440/1 and CONIFLOOR 440/1 FL, is UV and colour resistant, antistatic (< 2 kV body voltage when walking), abrasion-resistant and is used as a sealant indoors.

CONIFLOOR PU 541 CW AS has good mechanical properties and chemical resistance after complete curing and is used in the systems

- CONIFLOOR LPC
- CONIFLOOR LPC+
- CONIFLOOR LPC+ FL
- CONIFLOOR LPC+ LI (N)

and others.

Technical Data

Mixing ratio	in parts by weight	A : B	100 : 10 (10 : 1)
Density	mix, at 23 °C	g/cm ³	1.12
Viscosity	at 23 °C	mPas	ca 2140
Pot life (10kg mixture)	at 23 °C	min	approx. 60
Re-coating interval	min., at 23 °C, 50 % rel. humidity	h	12
	max. at 23 °C, 50 % rel. humidity	h	48
Dust dry after	at 23 °C, 50 % relative humidity	h	approx. 4
Ready for foot traffic	at 23 °C, 50 % relative humidity	h	approx. 12
Fully cured - ready for exposure to chemicals	at 23 °C, 50 % relative humidity	d	7
Substrate and application temperature	at least	°C	10
	maximum	°C	30
Permissible relative humidity	maximum	%	75
Body voltage (EN 1815)	Walking test	kV	< 2 kV
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.

The temperature of both components should be between 15 - 25 °C.

CONIFLOOR PU 541 CW AS 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.

The mixing process takes approximately 2 - 3 minutes and should be performed until the blend is homogenous and streak free.

Then you have to pour into a second, clean container and mix again for about 2 minutes to avoid mixing errors. We recommend using a sieve or varnish sieve when repotting to remove fine impurities, e.g., from the agitator.

The application of CONIFLOOR PU 541 CW AS is usually carried out with a "Microtex" roller (pile length 10-12 mm) on the prepared substrate, whereby a uniform, web-by-sheet processing is important.

The overlapping areas with the previous web must be kept as small as possible, longer connection times and draughts must be avoided. Switch off or severely throttle the underfloor heating before starting work.

A subsequent finishing with a clean paint roller in one direction is necessary in any case.

The ambient, material, air circulations and substrate temperature influence the pot life and curing time of CONIFLOOR PU 541 CW AS. At low temperatures, chemical reactions are generally slowed down; this lengthens the pot life, re-coating interval and open time. At the same time, the viscosity increases which leads to a higher consumption. High temperature and humidity accelerate chemical reactions, so the contrary is true.

Important: Make sure that doors and windows are closed, to avoid air circulation during the application and curing. Airflow can negatively influence the optical properties by creating roller marks.

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

After application, the material have to be protected from direct contact with water. Within this period, water could cause swelling of the sealing lacquer or stain.

Consumption

The consumption of CONIFLOOR PU 541 CW AS is approx. 0.14 – 0.16 kg/m².

Cleaning agent

Re-usable tools should be cleaned carefully with water.

Substrate condition

CONIFLOOR PU 541 CW AS is an antistatic, elastic sealant and is used on the non-conductive, elastic CONIFLOOR coatings CONIFLOOR 440/1, CONIFLOOR 440/1 FL and others. The expected mechanical load must be adapted to the overall system.

The revision time of the coating must also be observed.

The substrates to be coated must be firm, dry, fine-grip and load-bearing, free of loose and weary parts as well as separating substances such as oil, grease, rubber abrasion, paint residues or the like.

Note on the preparation of the antistatic properties:

In order to produce the antistatic properties and dissipate the electrostatic charges, a copper strip with a length of approx. 30 – 50 cm must be glued to the coating at least 2 points per room and revised with the sealing. The copper strips are then connected to an earthing point. For bigger areas we recommend an earth point each 100 m².

Since the copper strips in these areas cause slight increases, we recommend that the connections be placed in inconspicuous places if possible or in such a way that they may be used covered by skirting boards.

Sealing with CONIFLOOR PU 541 CW AS needs to be done latest within 2 days (20°C) after latest application.

Pre-treatment of the substrate by e.g., grinding or sanding is only necessary if the coating is very dirty, when applied onto old coatings or if the re-coating interval has, been exceeded.

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

Pack size

CONIFLOOR PU 541 CW AS is supplied in 10 kg working packs. A and B component are supplied separately in the correct proportions.

Colour

Standard colours – special colours on request

Bright colours as e.g., white are caused by the conductive fillers not possible.

Although the delivery of the A part is usually organized in one batch, care must still be taken to ensure that only one batch is used by part A.

Care and Maintenance

In order to maintain the properties of synthetic resin floor coverings over the long term, we recommend regular cleaning and maintenance. Please ask for our general care instructions. Before using the coatings for the first time, we generally recommend that you carry out basic cleaning with a conductive initial care by using polymeric waxes. This significantly improves the clean ability.

Storage

Store in original closed pails under dry conditions at a temperature range of 15 - 25 °C.

Important: Product is sensitive to frost!

Do not expose to direct sunlight.

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

Safety precautions

CONIFLOOR PU 541 CW AS 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 PU 541 CW AS 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 wb) is:

Level II (from 2010) <140 g/l VOC.

When ready to use, this product contains less than 140 g/l VOC.



CE- and UKCA-Label:

See Declaration of Performance.

CONICA AG
Industriestrasse 26
8207 Schaffhausen
Suisse

Tel.: + 41 52 644 3600
Fax: + 41 52 644 3699
info@conica.com
www.conica.com

Whilst any information contained herein is true, accurate and represents our best knowledge and experience, no warranty is given, or implied with any recommendations made by us, our representatives or distributors, as the conditions of use and the professional competence involved in the application of the product are beyond our control.

As all CONICA data sheets are updated on a regular basis, it is user's responsibility to obtain the most recent issue. Registered users can obtain the actual data sheets from our webpage. Hard copies are available upon request.