

CONIFLOOR 541/1 CW (ab)

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

Product description

CONIFLOOR 541/1 CW or CONIFLOOR 541/1 CW ab is an [aliphatic](#), high-quality, [pigmented](#), solvent-free, [very low-emission](#), low-viscosity, [elastic](#), [aqueous 2K PUR seal](#) with silk matt surface. CONIFLOOR 541/CW ab is equipped with a surface tested according to ISO 22196:2011.

Fields of application

CONIFLOOR 541/1 CW is generally used as a [UV-resistant](#), surface sealing lacquer [on elastic polyurethane](#) resin coatings. The version CONIFLOOR 541/1 CW ab, which has been tested according to ISO 22196:2011, is used specifically in health and nursing facilities and also for other areas that are subject to higher hygiene requirements.

Properties

CONIFLOOR 541/1 CW or CONIFLOOR 541/1 CW ab has a good adhesive spectrum on elastic coatings, is [UV and colour resistant](#), abrasion resistant and is used as a top coat indoors.

[CONIFLOOR 541 CW ab reduces the risk of germ carry-over over the floor covering due to its hygienic properties.](#)

CONIFLOOR 541/1 CW or CONIFLOOR 541/1 CW ab 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)
- CONIFLOOR LPV

and others.

Technical Data

Mixing ratio	in parts by weight	A : B	100 : 8 (12,5 : 1)
Density	mix, at 23 °C	g/cm ³	1.17
Viscosity	at 23 °C	mPas	ca 350
Pot life (10kg mixture)	at 23 °C	min	approx. 60
Re-coating interval	min., at 23 °C, 50 % rel. humidity max. at 23 °C, 50 % rel. humidity	h h	12 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 maximum	°C °C	10 30
Permissible relative humidity	maximum	%	75
Taber	ISO 5470-1 (1000g/CS10)	mg	30
<i>Above figures are guide values and should not be used as a base for specifications!</i>			

Application method

Please also note the information in our general processing guidelines.

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

CONIFLOOR 541/1 CW or CONIFLOOR 541/1 CW ab 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 541/1 CW or CONIFLOOR 541/1 CW ab 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 541/1 CW or CONIFLOOR 541/1 CW ab. 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.

Important: Please make sure, that this top coat has sufficient coverage strength on top of the grey coloured CONIPUR 440 FL (for further advice please contact Technical Service CONICA). Else, the top coat has to be applied in 2 coats.

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 541/1 CW or CONIFLOOR 541/1 CW ab is approx. 0.13 kg/m².

Cleaning agent

Re-usable tools should be cleaned carefully with water.

Substrate condition

CONIFLOOR 541/1 CW or CONIFLOOR 541/1 CW ab is an elastic top sealer and can be applied to most of our elastic CONIFLOOR PUR-coatings. The expected mechanical strain to the system needs to be judged to find the correct top coat.

Substrates to be coated have to be firm, dry, load bearing and free of loose and brittle particles and substances, which impair adhesion such as oil, grease, rubber skid marks, paint, or other contaminants.

Sealing with CONIFLOOR 541/1 CW or CONIFLOOR 541/1 CW ab 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 541/1 CW or CONIFLOOR 541/1 CW ab 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

Important: Please make sure that the CONICA seal has sufficient opacity (in case of ambiguity, please contact us). Otherwise, the sealing must be done twice or (in rare cases) even three times.

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 initial care by using polymeric waxes. This significantly improves the clean ability.

When using CONIFLOOR 541/1 CW, be careful not to use any additional cleaning or care products that leave a film, otherwise the specific hygienic properties will no longer be present.

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 541/1 CW or CONIFLOOR 541/1 CW ab 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 541/1 CW or CONIFLOOR 541/1 CW ab 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.

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