

CONIFLOOR 541/1 W

Two-part PUR sealing lacquer, transparent, water based, low emission, UV- and colour stable, with mat finish for elastic CONICA PUR coatings

Product description

CONIFLOOR 541/1 W is a [water based](#), solvent free, [low emission and transparent](#), two-component mat finished PUR sealing lacquer of low viscosity.

Fields of application

CONIFLOOR 541/1 W is used as UV resistant, transparent sealing lacquer on [elastic PUR coatings](#). The transparent sealing lacquer [cannot avoid the yellowing of non-colour stable coatings below](#).

Properties

CONIFLOOR 541/1 W exhibits good adhesion to non-porous substrates and is used as transparent top sealer in example

by using colour flakes which is easy to apply, easy to clean and features a good scratch-resistance.

Fully cured, CONIFLOOR 541/1 W exhibits excellent mechanical properties and medium chemical resistance.

CONIFLOOR 541/1 W is used in the systems

- CONIFLOOR UPD
- CONIFLOOR UPD+

and other systems.

Technical Data

Mixing ratio	in parts by weight	A : B	100:8
Density	mix, at 23 °C	g/cm ³	1.06
Viscosity	at 23 °C	mPas	250 - 400
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 d	24 2
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 W is supplied in the correct proportions of component A (resin) and component B (hardener).

Pour component B into component A and ensure that the pail containing component B is emptied completely.

To achieve a homogenous mix, thoroughly mix with a slow rotating mixing device at about 300 rev/min. Ensure that the mixing device reaches the side and bottom areas of the mixing vessel.

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

[Do not](#) use the product out of the mixing pail. Pour the mix into another [clean](#) pail and mix it again for 2 more minutes.

We recommend using a sieve or lacquer sieve when repotting in order to remove fine impurities, e.g., from the agitator.

CONIFLOOR 541/1 W is normally applied to the pre-treated substrate by [rolling](#) with a "Microtex" (Pile height: 10-12 mm). Roll out well, keep the overlap areas to [a minimum](#), and [keep wet edge always wet](#) with fresh material.

It is necessary to [re-roll](#) freshly applied material with a second clean paint roller [in one direction](#) in order to obtain a uniform surface with a minimum of overlap marks.

The ambient, material, air circulations and substrate temperature influence the pot life and curing time of CONIFLOOR 541/1 W. 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 541/1 W](#) is approx. [0.13 kg/m²](#).

Cleaning agent

Re-usable tools should be cleaned carefully with water.

Substrate condition

CONIFLOOR 541/1 W is an elastic top coat and can be applied to most of our CONICA PUR-coatings. The expected mechanical strain needs to be considered for the complete system.

[Sealing](#) with CONIFLOOR 541/1 W needs to be done [latest within 2 days](#) (20°C) after latest application. Re-coating intervals need to be kept.

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.

[Pre-treatment](#) of the substrate by e.g., grinding or sanding (including the necessary post-treatments) 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 W is supplied in 10,8 kg working packs. A and B component are supplied separately in the correct proportions.

Colour

Transparent

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.

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 W 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 W 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 marking:

See Declaration of Performance

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