

CONIFLOOR 520 W

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

Product description

CONIFLOOR 520 W is a water based, solvent free, [low emission and colourless](#), two-component [silk-mat finished PUR sealing lacquer](#) of low viscosity.

Fields of application

CONIFLOOR 520 W is used as UV resistant, transparent sealing lacquer on [hard EP and PUR coatings](#). The transparent sealing lacquer **cannot avoid** the yellowing of non-colour stable coatings below.

If required and after special testing, CONIFLOOR 520 W can also be used as an impregnation for high-quality cementitious surfaces. The surface appearance is just slightly changed. Please ask our technical service.

Properties

CONIFLOOR 520 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 520 W exhibits excellent mechanical properties and chemical resistance.

CONIFLOOR 520 W is used in the systems

- CONIFLOOR IES
- CONIFLOOR IEL

and other systems.

Technical Data

Mixing ratio	in parts by weight		100:25
Density	mix, at 23 °C	g/cm ³	1.07
Viscosity	at 20 °C	mPas	200 - 400
Pot life (10kg mixture)	at 20 °C	min	ca. 45
Re-coating interval	min., at 23 °C, 50 % rel. humidity	h	18 - 24
	max. at 23 °C, 50 % rel. humidity	h	30
Ready for foot traffic	at 20 °C, 50 % relative humidity	h	18 - 24
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

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 520 W 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.

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.

CONIFLOOR 520 W is normally applied to the pre-treated substrate by **rolling** with a "Microtex" roller (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 520 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.

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. High temperature and humidity accelerate chemical reactions so the contrary is true.

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 520 W on homogenous coatings is approx. 0.13 kg/m²

Cleaning agent

Re-usable tools should be cleaned carefully with water.

Substrate condition

CONIFLOOR 520 W is a hard top coat and is applied to our hard CONIFLOOR coatings CONIFLOOR 430 and CONIFLOOR 570 C considering the expected mechanical strain to the system. See also the re-coating interval of the coating where CONIFLOOR 520 W will be applied.

In the case of **direct application as an impregnation for cement-based surfaces**, our technical service should be contacted in advance and the special substrate requirements and processing instructions should be inquired about. **A general approval for these substrates is not possible.**

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 520 W needs to be done latest **within 30 hours** (20°C) after latest application. Indicated re-coating intervals have to be kept.

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

Pack size

CONIFLOOR 520 W is supplied in 10 kg working packs. A and B component are supplied separately in the correct proportions.

Colour

Whitish if wet, transparent in cured situation.

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 10 - 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 520 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 520 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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