

CONIFLOOR EP 500 CW

(old CONIFLOOR 500 CW)

Two-part EP resin sealing lacquer with high quality, water based, low emission, pigmented, silk-matt

Product description

CONIFLOOR EP 500 CW is a [water based](#) solvent free, [low emission](#) and pigmented two-component [silk-mat finished epoxy sealing lacquer](#).

Fields of application

CONIFLOOR EP 500 CW is used for the production of [coloured sealing](#) of floor surfaces inside and outside on concrete and cement screed. Furthermore, it can be used as [scratch coat for thin layer coatings](#). It is suitable for surfaces where light to medium mechanical stress is available, a good chemical resistance is required, and the concrete or screed surface structure is to be preserved. Classic application areas are cellars, hobby, and technical rooms, as well as private garages and parking spaces

Properties

- Silk mat
- Good mechanical and chemical resistant
- Easy workable
- Water dilutable
- Water vapour permeable
- slip resistant option
- Suitable for indoor application

CONIFLOOR EP 500 CW is used as pigmented sealing lacquer in the systems

- CONIFLOOR IWL
- CONIFLOOR IWL SR
- CONIFLOOR IWM
- CONIFLOOR IWM SR

and other systems.

Technical Data

Mixing ratio	in parts by weight		20:100 (1:5)
Density	mix, at 23 °C	g/cm ³	1.28
Viscosity	at 20 °C	mPas	1000
Pot life (12kg mixture)	at 20 °C	min.	30
Processing time	at 20 °C	min.	30
Re-coating interval	at 20 °C	h	18 - 24
	max., at 23 °C	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	8
	maximum	°C	30
Permissible relative humidity	maximum	%	75
Abrasion resistance	Taber CS17/1000 U/1000 g)		0.5
	Part A	%	100
Solid content	Part B	%	54.7
	Mixture	%	62.5

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.

CONIFLOOR EP 500 CW is supplied in working packs which contain the correct proportions of component A (resin) and component B (hardener).

Mixing

Before mixing, precondition both A and B components to a temperature of approximately 15°C up to 25 °C.

CONIFLOOR EP 500 CW is supplied in the correct proportions of component A (hardener) and component B (resin). First mix up component B with the electric mixer, then pour component A into component B and ensure that the pail containing component A 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. For using CONIFLOOR EP 500 CW as primer add 5 % water after mixing.

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.

Priming

CONIFLOOR EP 500 CW is normally applied as a primer with 5% water by rolling with a "Microtex" roller (pile height: 10-12 mm) or a rubber squeegee. Roll out well and keep overlap areas to a minimum.

Optional scratch coat

If required, CONIFLOOR EP 500 CW can also be filled with fire-dried quartz sand with a grain size of 0.1-0.3 mm in a ratio of 1:1 to produce scratch coats and applied to the primed surface using a trowel or a metal scraper. If a higher layer thickness is required, a two-layer version is recommended.

For anti-slip surfaces, the fresh scratch coat can be sprinkled in excess using fire-dried quartz sand with a grain size of 0.3-0.8 mm and then sealed with CONIFLOOR EP 500 CW.

Sealing lacquer / top coat

The other operations can be rolled with a microfiber roller. With uneven material distribution, layer thickness fluctuations and fluctuating ambient conditions, differences in colour and gloss cannot be avoided. Waiting times during processing can lead to small colour differences. The CONIFLOOR EP 500 CW is usually spread over the prepared surface with a rubber squeegee and finished with a "Microtex" roller (pile length 10-12mm). Consumption depends on the nature of the surface and is approx. 0.20-0.25 kg / m² per coat.

When used on sprinkled surfaces, the consumption should be increased to approx. 500 g / m²; for thicker layers, a two-layer application is recommended.

Sealing with CONIFLOOR EP 500 CW needs to be done latest within 2 days (20°C) after latest application. Indicated re-coating intervals have to be kept.

The ambient, material, air circulations and substrate temperature influence the pot life and curing time of CONIFLOOR EP 500 CW. 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. Too high 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 EP 500 CW is approximately between 0.18 – 0.25 kg/m², on with quartz sand broadcasted surfaces appr. 0.5 – 0.6 kg/m².

Cleaning agent

Re-usable tools should be cleaned carefully with water or CLEANER 45.

Substrate condition.

The substrate must be loadbearing, dimensionally stable, sound, free of loose material, dust, oil, grease, marks from rubber tyres or other substances that could interfere with adhesion. Tensile strength of the substrate must be 1.5 N/mm² on average and compressive strength at least 25 N/mm². The substrate must also have sufficiently reacted and be loadbearing.

- concrete max. 6 M% moisture
- cement screed max. 6 M% moisture
- Anhydrite screed max. 0.3 M% moisture
- Magnesite screed 2 - 4 M% moisture

With anhydrite and magnesite screeds, moisture penetration from building components or soil must be ruled out. In general, water vapour diffusion systems are recommended for anhydrite and magnetite screeds.

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

Pack size

CONIFLOOR EP 500 CW is supplied in 12 kg and 24 kg working packs. A and B component are supplied separately in the correct proportions.

Colour

ca. RAL 7001, 7012, 7023, 7030, 7032 7035, 7046, 7042, 7040, 7012, other colours available on request

In order to ensure a uniform colouring of the surface, CONIFLOOR EP 500 CW should only be processed from one production batch.

When processing different batches on the same project, several containers must be divided and mixed together at the transition to the next batch, so that a smooth transition can be produced. Alternatively, a deliberate working seam (day section) or dividing rail can be planned at the transition.

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 EP 500 CW 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 EP 500 CW 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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