

# CONIFLOOR EP 500 W

Two-part EP resin, impregnation with high quality, water based, low emission, transparent, silk-matt

## Product description

CONIFLOOR EP 500 W is a water based solvent free, low emission and [transparent](#) two-component [silk-mat finished epoxy impregnation](#).

## Fields of application

CONIFLOOR EP 500 W is used as [transparent impregnation](#) in- and outdoor on concrete and cementitious screeds. Suitable for light to medium loads. Where the surface texture should be preserved. The area of application is technical rooms, cellar and hobby rooms, garages and storage rooms.

## Properties

- Silk mat
- Good mechanical and chemical resistance
- Easy workable
- Water dilutable
- Water vapour permeable
- Suitable for in- and outdoor application

## Technical Data

Mixing ratio	in parts by weight		25:100 (1:4)
Density	mix, at 23 °C	g/cm <sup>3</sup>	1.19
Viscosity	at 20 °C	mPas	1100
Pot life (12kg mixture)	at 20 °C	Min	30
Processing time	at 20 °C	min	30
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
Solids contents		%	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](#).

The [temperature](#) of both components should be between 10 - 30 °C.

CONIFLOOR EP 500 W is supplied in the correct proportions of component A (resin) and component B (hardener). 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.

**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.

### Impregnation/consolidation

CONIFLOOR EP 500 W is normally applied as an impregnation with 5% water by rolling with a "Microtex" roller (pile height: 10-12 mm) or a rubber squeeze. Roll out well and keep the overlap areas to a minimum. **Consumption rate is 0.2-0.5 kg/m<sup>2</sup>** per layer (depending on substrate conditions)

The ambient, material, air circulations and substrate temperature influence the pot life and curing time of CONIFLOOR EP 500 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 EP 500 W is approximately between **0.18 – 0.25 kg/m<sup>2</sup> per layer**.

### Cleaning agent

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

### Substrate condition.

The substrate must be loadbearing, dimensionally stable, sound, and 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/mm<sup>2</sup> on average and compressive strength at least 25 N/mm<sup>2</sup>. 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 W is supplied in 10 kg working packs. A and B component are supplied separately in the correct proportions.

### Colour

Transparent

### Storage

Store in original closed pails under dry conditions at a temperature range of 10 - 30 °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 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 EP 500 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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