

# CONIFLOOR EP 100 (old CONIFLOOR 100)

## Two part, EP resin impregnation, solvent free for cementitious substrates

### Product description

CONIFLOOR EP 100 is a solvent free, **very low viscosity**, **transparent**, two component **epoxy** resin based impregnation **with longer curing time**.

### Fields of application

CONIFLOOR EP 100 is designed for use as an **impregnation** on mineral substrates indoors such as concrete and cementitious screeds. It is suitable for use as a pore and capillary sealing

### Properties

CONIFLOOR EP 100 has **very low viscosity** and therefore shows high capillary activity.

The material has very good adhesion to substrates based on minerals and / or cement. The impregnation can also be used to **strengthen the surface**.

The yellowing which occurs when exposed to UV light does not impair its technical properties.

Fully cured, CONIFLOOR EP 100 exhibits very good mechanical properties. It is resistant to water, sea and waste water as well as to a variety of alkalis, diluted acids, brine, mineral oils, lubricants and fuels

### Technical Data

<b>Mixing ratio</b>	Parts by weight Comp.	A : B	100 : 28
<b>Density</b>	Mixture, at 23 °C	g/cm <sup>3</sup>	1,02
<b>Viscosity</b>	Mixture, at 23 °C	mPas	22
<b>Working time (10 kg-working packs)</b>	at 10 °C at 20 °C at 30 °C	min. min. min.	150 80 40
<b>Re-coating interval</b>	at 20 °C	minimal maximum	h h
<b>Ready for foot traffic</b>	at 10 °C at 20 °C at 30 °C	h h h	min. 24 min. 12 min. 6
<b>Substrate and application traffic</b>	minimal maximum	°C °C	10 30
<b>Max. permissible relative humidity</b>		%	75
<b>Trough-hardenend:</b> <b>mech. resistance</b>	bei 20 °C	d	5
<b>walkable</b>	bei 20°C	d	1
<b>chem. resistance</b>	bei 20 °C	d	7
<b>Tensile bond strength</b>		N/mm <sup>2</sup>	≥ 1,5
<i>These figures are indicative. The values are not for creating specifications!</i>			

### Application method

Please also **note** the information in our general processing **guidelines**.

CONIFLOOR EP 100 is supplied in working packs which contain the correct proportions of component A (resin) and component B (hardener).

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### Mixing

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

Pour component B into component A and ensure that pail containing component B is emptied completely. Scrape the sides and the bottom of the pail several times to ensure complete mixing. Do not mix by hand, mix with a mechanical drill and paddle at a very low speed (ca. 300 rpm) for **at 2 - 3 minutes**. Keep the mixer blades submerged in the material to **avoid** introducing air **bubbles**. Do not work out of the original drum / pail.

After proper mixing to a homogeneous consistency pour the mixture into a **fresh pail** and mix for another minute.

## Consumption

The consumption of CONIFLOOR EP 100 used as primer is approximately between 0.1-0.15 kg/m<sup>2</sup> **depending** on the condition and porosity of the substrate.

A **2<sup>nd</sup> coat** of 0.1-0.15 kg/m<sup>2</sup> of **primer** CONIFLOOR EP 100 can be necessary in order to close the capillary and the pores of the concrete.

**Note:** Due to the different penetration behavior of the subsurface, the appearance of the surface can visually differ, which is due to the situation and does not represent a defect.

The **quantities given are guidelines and may be higher for very rough or porous surfaces**. If necessary, **exact consumption values should be determined on the object** after the substrate has been pre-treated. The creation of sample areas is recommended.

CONIFLOOR EP 100 should be applied when the ambient **temperature** is **constant** or falling as this will decrease the risk of bubble formation due to evaporation of air that is enclosed in the concrete. CONIFLOOR EP 100 is applied to the prepared substrate by rolling, spraying or spreading with a squeegee. **After** waiting for at least **10 minutes**, finish with a **roller**. Ponding or spots where the primer is applied thick have to be avoided.

## Notes to the residues after working:

**Due to the high reactive epoxy resin formulation**, residues have to be filled with quartsand. On 1 kg epoxyd-resin-mixture you have to fill about 3-4 kg quartsand into it. After hardening the material has to be disposed. **At disregarding it will come to strong smoke- and heat development.** Residues has to be stored outside

## Temperatures

The working life and curing time of the material is influenced by the ambient, material and substrate temperatures. At low temperatures, the chemical reactions are slowed down; this lengthens the pot life, open time and curing times. High temperatures speed up the chemical reactions thus the time frames mentioned above are shortened accordingly.

To fully cure the material, substrate and application temperature should not fall below the minimum.

After application, the material should be protected from direct contact with water for approx. 24 h (at 20° C). Within this period, contact with water can cause a surface bloom and/or surface tackiness, both of which must be removed else the adhesion to the following coating is impaired.

## Substrate condition

All substrates (new and old) must be structurally sound, dry and free of laitance and loose particles. Clean floors of oil, grease, and rubber skid marks, paint stains and other adhesion impairing contaminants. The substrate must be dust-free (industry vaccum-cleaner)

After surface preparation the **tensile strength** of the concrete should exceed 1.0 N/mm<sup>2</sup> (check with an approved pull-off tester at a load rate of 100 N/s).

The **moisture level** of the sub-base needs to be **less than 4 %**.

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

There must be a regular DPM between the stone base and the slab.

## Cleaning agent

Re-usable tools should be cleaned carefully with CLEANER 44 or e.g. isopropanol.

## Pack size

CONIFLOOR EP 100 is supplied in 10 kg working packs.

## Colour

transparent

## Storage

Store in original closed packing under dry conditions at a temperature range of 15 - 25 °C.

Do not expose the drums to direct sunlight.

Please check "best-before" date on the pail before usage.

## Safety precautions

CONIFLOOR 110 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 100 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 sb) is:

Level II (from 2010) <500 g/l VOC.

When ready to use, this product contains less than 500 g/l VOC.



## CE-Label:

See Declaration of Performance.