

CONIFLOOR 110

Two Component, Solvent Free Epoxy Primer, Pore Sealer and Mortar

Product description

CONIFLOOR 110 is a solvent free, low viscosity, two component epoxy resin based primer.

Fields of application

CONIFLOOR 110 is designed for use as a primer on mineral substrates indoors and outdoors such as concrete and cementitious screeds.

It is suitable for use as a pore and capillary sealing. for this purpose the product is – after mixing of component A and B – filled with oven dried quartz sand.

The degree of filling depends on the temperatures as well as on the thickness of the layer and should be between 0.5 up to 2 referred to the primer (ratio by weight) .

Properties

CONIFLOOR 110 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 primer is all-purpose.

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

Fully cured, CONIFLOOR 110 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

Mixing ratio	in parts by weight	A: B	100 : 43	
Density	mix, at 23 °C	g/cm ³	1.09	
Viscosity	mix, at 23 °C	mPas	508	
Working time (25 kg working packs)	at 10 °C	min	60	
	at 20 °C	min	30	
	at 30 °C	min	15	
Re-coating interval	at 20 °C	min.	h	8
		max.	h	48
Ready for foot traffic	at 10 °C	h	min. 24	
	at 23 °C	h	min. 8	
	at 30 °C	h	min. 4	
Substrate and application temperature	minimum	°C	10	
	maximum	°C	30	
Max. permissible relative humidity		%	75	
Shore D hardness	after 7 d		80	
Tensile bond strength		N/mm ²	≥ 1.5	
<i>Above figures are guide values and should not be used as a base for specifications!</i>				

Application method

CONIFLOOR 110 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.

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 110 used as primer is approximately between 0.3-0.5 kg/m² **depending** on the condition and porosity of the substrate.

A **2nd coat** of 0.2-0.4 kg/m² of **primer** CONIFLOOR 110 broadcasted with oven dried sand is **mandatory** in order to seal concrete pores and capillaries completely.

Unevenness >0.5mm must be equalized by an additional scratch coat.

The above consumption figures are intended as a guide only and may be higher on very rough or porous substrates. For additional filling with fire dried silica sand grain size 0.1-0.3 mm is recommended.

CONIFLOOR 110 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 110 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.

PUR Coatings

To improve the adhesion to a following coating oven dried **sand** (grain size 0.3-0.8mm – approx. 1kg/m²) is **broadcasted** into the primer whilst still in order to improve adhesion of the following polyurethane based product. Bald patches as well as excess broadcasting have to be **avoided**.

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.

A pre-treatment of the substrate by grit or shot blasting, high pressure water jetting, grinding or scabbing including the necessary post-treatment is only necessary, when the layer is soiled or the re-coating intervals have been exceeded.

After surface preparation the **tensile strength** of the concrete should exceed 1.5 N/mm² (check with an approved pull-off tester at a load rate of 100 N/s).

The optimum **moisture level** of the sub-base should be 4%. However, Conifloor 110 can be applied on dry surfaces of concrete of up to 6 % CM, provided the concrete quality is good and tensile tests are above 1.5Nmm².

There must be a regular damp proof membrane (DPM) between the stone base and the slab. The occurrence of moisture penetration on the rear side must be impossible.

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

Cleaning agent

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

Pack size

CONIFLOOR 110 is supplied in 25 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 110 meets the requirements of the EC directive 2004/42/EC.



CE Declaration of Performance

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