

CONIFLOOR EP 112 (old CONIFLOOR 112)

Two part EP resin primer, pre-filled, as primer and scratch coat, (total solid)

Product description

CONIFLOOR EP 112 is a [prefilled](#), low viscosity, [pigmented](#), two component epoxy resin-based primer, "Total Solid accord. to the test methods Deutsche Bauchemie e.V."

Fields of application

CONIFLOOR EP 112 is designed for use as a primer, or a scratch coat, on mineral substrates indoors and outdoors such as concrete and cementitious screeds.

If necessary CONIFLOOR EP 112 can additionally be filled with oven dried quart sand size 0.1-0.3 or 0.1 – 0.5 mm. The degree of filling depends on the temperature as well as the thickness of the layer and can be filled up to 1:0.7 part per weight.

The layer thickness is in between min. 0.5 till max. 3 mm when filled like given above per layer.

Properties

CONIFLOOR EP 112 is [pre-filled](#) in the factory, has a low viscosity and therefore shows high capillary activity.

The material has very good adhesion to substrates based on minerals and / or cement.

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

Fully cured, CONIFLOOR EP 112 exhibits very good mechanical properties. It is resistant to water, sea and waste water, as well a variety of alkalis, diluted acids, brine, mineral oils, lubricants and fuels.

Technical Data

Mixing ratio	in parts by weight	A : B	100 : 29
Density	mix, at 23 °C	g/cm ³	1.67
Viscosity	mix, at 23 °C	mPas	550
Working time (25 kg working packs)	at 10 °C	min.	50
	at 20 °C	min.	30
	at 30 °C	min.	15
Re-coating interval	at 20 °C	min.	h 8
		max.	h 36
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

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 112 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 **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 112 used as primer or a scratch coat is approximately between **0.5-0.8 kg/m²** **depending** on the condition and porosity of the substrate.

A **2nd coat** of **0.4-0.6 kg/m²** of **primer** CONIFLOOR EP 112 broadcasted with oven dried sand can be necessary **in** order to seal concrete pores and capillaries completely.

CONIFLOOR EP 112 is used especially at unevenness of $\geq 0.5\text{mm}$.

In the case of highly absorbent substrates, it may be necessary to first prime with the unfilled primer CONIFLOOR EP 110.

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

CONIFLOOR EP 112 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 112 is applied to the prepared substrate by a squeegee and if necessary finished with a roller. Puddles need to be avoided.

PUR Coatings

To improve the adhesion to a following coating oven dried **sand** (grain size 0.3-0.8mm – approx. min. 1kg/m² for a consumption for CONIFLOOR EP 112 of 0.4-0.6 kg/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

The subsurface (old and new) must be structurally sound, solid, free of loose particles and laitance, dust, oils, greases, rubber abrasion and other separating substances. The surface tensile strength of the surface to be primed must be at least 1.5 N/mm² (smallest individual value at least 1.0 N/mm²), the compressive strength at least 25 N/mm². The substrates must have reached their equilibrium moisture content and also be protected from the effects of rising water during use or special measures must be taken, such as applying an additional blocking primer (ask our technical service).

Concrete	max. 4 M-% moisture
Cement screed	max. 4 M-% moisture
2-fold, film-forming primer up to	max. 6 M-% moisture (after consultation with technical service)

With higher residual moisture up to max. 6 M-%, CONIFLOOR EP 110 or CONIFLOOR EP 112 can be used with an additional film-forming blocking primer. The first step is to be applied in a film-forming manner (min. 600 g/m²) and not sanded. The second work step must take place within the revision times.

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.

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 112 is supplied in 30 kg working packs. A- and B-component are filled in separate cans in the suitable mixing ratio.

Color: light grey

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 EP 112 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 112 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.

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