

CONIFLOOR 112

Two part EP resin primer, pre-filled, solvent free, as primer and scratch coat

Product description

CONIFLOOR 112 is a pre-filled, low viscosity, pigmented, two component epoxy resin-based primer.

Fields of application

CONIFLOOR 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 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 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 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

CONIFLOOR 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 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 112 broadcasted with oven dried sand can be necessary in order to seal concrete pores and capillaries completely.

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

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 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 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 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

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 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 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 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 112 meets the requirements of the EC directive 2004/42/EC



CE-Label:

See Declaration of Performance.

CONICA AG
Industriestrasse 26
8207 Schaffhausen
Suisse
Tel.: + 41 52 644 3600
Fax: + 41 52 644 3699
info@conica.com
www.conica.com

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