CONIFLOOR EP 125 CR

Two-part EP resin primer, for priming, scratch coats and mortar resin, (total solid), low emission in system

Product description
CONIFLOOR EP 125 CR is a low viscosity, two-component epoxy resin-based primer, "Total Solid accord. to the test methods Deutsche Bauchemie e.V.".

Fields of application
CONIFLOOR EP 125 CR 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 and for levelling layers and scratch coats. 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, for EP mortars up to 1 : 12 (ratio by weight).

Properties
CONIFLOOR EP 125 CR 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 material is easy to process and moisture blocking (in a 2-fold application when film forming).

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

Fully cured, CONIFLOOR EP 125 CR exhibits very good mechanical properties. It is resistant to water, sea and wastewater 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 : 50
Density	mix, at 23 °C		g/cm³	1.09
Viscosity	mix, at 23 °C		mPas	440
Working time (25.2 kg working packs)	at 10 °C at 20 °C at 30 °C		min min min	30 20 12
Re-coating interval	at 20 °C	min. max.	h h	8 48
Ready for foot traffic	at 10 °C at 20 °C at 30 °C		h h h	min. 24 min. 12 min. 6
Substrate and application temperature	minimum maximum		°C °C	12 30
Max. permissible relative humidity			%	80
Shore D hardness	after 7 d			≤ 80
Tensile bond strength			N/mm²	≥ 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 125 CR 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 EP 125 CR used as primer is approximately between 0.3-0.5 kg/m^2 depending on the condition and porosity of the substrate.

A 2nd coat of 0.2-0.4 kg/m^2 of primer CONIFLOOR EP 125 CR broadcasted with oven-dried sand is mandatory in order to seal concrete pores and capillaries completely.

Unevenness >0.5mm must be levelled 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 EP 125 CR 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 125 CR is applied to the prepared substrate by rolling 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 must be avoided.

PUR Coatings
To improve the adhesion to a following coating oven dried sand (grain size 0.3-0.8mm – approx. 0.8 – 1.0 kg/m^2) 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 must be avoided.

Temperatures
The ambient, material and substrate temperatures influence the working life and curing time of the material. 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 periods 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 compressive strength should have > 25 N/mm². The optimum moisture level of the cementitious sub-base should be 4% CM.

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 45 or e.g., isopropanol.

Pack size
CONIFLOOR EP 125 CR is supplied in 25.2 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 EP 125 CR 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 125 CR 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 and UKCA marking:
See Declaration of Performance

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