

CONIFLOOR EP 115 (old CONIFLOOR 115)

Two part EP resin primer, moisture tolerant, for damp cementitious substrates and as blocking primer, (total solid)

Product description

CONIFLOOR EP 115 is a two component [epoxy](#) resin based, "Total Solid accord. to the test methods Deutsche Bauchemie e.V.", [moisture tolerant](#) and resistant primer for the application on [damp cementitious](#) substrates.

Fields of application

CONIFLOOR EP 115 is designed for use as a primer on mineral cementitious substrates, indoor and outdoor. For the application, the [substrate can be damp](#), but the surface must be [free of puddles](#) and look mat. This is important, because the [penetration](#) of the primer after surface preparation (e.g. shot blasting) [into the capillary pores must be insured](#), that the adhesion after curing is very good and sufficient.

It is suitable for use as a pore and capillary sealing. For this purpose, the product – after mixing of component A and B – has to be filled with fire dried silica sand.

Technical Data

Mixing ratio	in parts by weight		A: B	100 : 60
Density	mix, at 23 °C		g/cm ³	1.02
Viscosity	mix, at 23 °C		mPas	900
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. max.	h h	12 48
Ready for foot traffic	at 10 °C at 23 °C at 30 °C	h h h		min. 24 min. 12 min. 8
Substrate and application temperature	minimum maximum		°C °C	10 30
Max. permissible relative humidity			%	80
Shore D hardness	after 7 d			81
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

Please also [note](#) the [information](#) in our general processing [guidelines](#).

CONIFLOOR EP 115 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 +10°C up to +25°C.

Pour component B into component A and ensure that the 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, but 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 creating 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 115 used as primer is approximately between minimum 0.4-0.6 kg/m² depending on the condition and porosity of the substrate.

The application has to be done with a squeegee and following by back rolling. Depending on porosity of substrate, the consumption rate must be adapted.

The 2nd coat of minimum 0.3-0.4 kg/m² of primer CONIFLOOR EP 115 has to be applied. This, to be sure that all pores in the substrate are completely closed. The first layer of priming isn't broadcasted with sand and please note the re-coating interval.

To broadcast the fresh primer with fire dried sand is mandatory after the second layer.

Unevenness >0.5mm must be equalized by an additional scratch coat. For this, CONIFLOOR EP 115 can be mixed with oven dried silica sand (size 0.1-0.3 mm) 1:0.5 until approx. 1.5 parts by weight. The mixing ratio depends on the environmental conditions, the substrate temperature and the calculated consumption of the scratch coat.

The above consumption figures are intended as a guide only and may be higher on very rough or porous substrates. CONIFLOOR EP 115 is applied to the prepared substrate by rolling and/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.

CONIFLOOR EP 115 should be applied when the ambient temperature is constant or falling, as this will decrease the risk of bubble formation by evaporation of air, which is enclosed in the concrete.

PUR Coatings

To improve the adhesion to any following coating fire dried sand (grain size 0.3-0.8mm – approx. 1kg/m²) is broadcasted into the wet 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. The scratch coat as the second layer has to be broadcasted in excess until signal saturation.

If elastic coatings are applied, the layer of primer and scratch primer must be water-vapor-tight.

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 (+10°C).

After application, the material should be protected from direct contact to water on top for approx. 24 h (at 20° C).

Within this period, contact with water can cause a surface bloom and/or surface tackiness, which must be removed else, the adhesion to the following coating is impaired.

Cleaning agent

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

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

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.

Pack size

CONIFLOOR EP 115 is supplied in 24 kg work package.

Colour

Comp. A is transparent, comp. B is brownish

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 115 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 115 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 Declaration of Performance

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