

CONIFLOOR 115

Two Component, Solvent Free, Moisture Tolerant Epoxy Primer for Damp Cementitious Substrates

Product description

CONIFLOOR 115 is a solvent free, two component epoxy resin based and moisture tolerant and resistant primer for the application on damp cementitious substrates.

Fields of application

CONIFLOOR 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 look mat. This, because the penetration of this primer after surface preparation (eg. shot-blasting), into the capillary pores is good enough, the bonding after curing 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.

The degree of filling with fired dried silica sand grain size 0.1-0.3mm depends on the temperatures as well as on the thickness of the layer and should be between 0.5 up to 1.5 referred to the primer (ratio by weight) .

Properties

CONIFLOOR 115 is solvent free, has mid viscosity and therefore shows high capillary activity.

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

Fully cured, CONIFLOOR 115 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 : 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.	h	12
		max.	h	48
Ready for foot traffic	at 10 °C	h	min. 24	
	at 23 °C	h	min. 12	
	at 30 °C	h	min. 8	
Substrate and application temperature	minimum	°C	10	
	maximum	°C	30	
Max. permissible relative humidity		%	80	
Shore D hardness	after 7 d		81	
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 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 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.

The **2nd coat** of minimum 0.3-0.4 kg/m² of **primer** CONIFLOOR 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 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 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 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 absolutely water-vapour-tight.

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 (+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

All substrates (new and old) must be structurally sound, dry and be 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 min. 1.5 N/mm² (check with an approved pull-off tester at a load rate of 100 N/s).

The substrate surface may be damp, without a visible wet surface. It must be insured, that no rising moisture occurs underneath the substrate.

- Concrete max. 6 CM-%
- Green Concrete Max. 6CM-%
- Cement screed max. 6 CM-%

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

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.

Pack size

CONIFLOOR 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 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 115 meets the requirements of the EC directive 2004/42/EC.



CE-Label:

See Declaration of Performance.

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