

CONIFLOOR PAS 111 LE

Two-part Polyaspartic resin, fast curing primer and even at low temperatures, solvent free, low emission

Product description

CONIFLOOR PAS 111 LE is a special two-component, solvent free and low emission, [slightly pre-filled](#) primer based on [aromatic Polyaspartic](#) resin, [fast curing](#) and reacts [at low temperatures](#).

Fields of application

CONIFLOOR PAS 111 LE is used indoors and outdoors as a pore-closing and capillary-sealing primer on mineral substrates such as concrete or cement screed (not on concrete with rising moisture). The application is [mainly](#) under polyurethane, polyaspartic or polyurea resin coatings.

Properties

CONIFLOOR PAS 111 LE has a low viscosity and therefore shows high capillary activity.

It has a very good adhesion on mineral, cement-based substrates. The primer can also be used on wooden substrates, if necessary, we recommend creating a test area.

The [yellowing](#) when used in UV-exposed areas does not affect the technical properties.

After curing, CONIFLOOR PAS 111 LE is characterized by very good mechanical properties. It is resistant to water, sea water and wastewater as well as being resistant to a large number of alkalis, diluted acids, salt solutions, mineral oils, lubricants, and fuels.

Technical Data

Mixing ratio	in parts by weight	A: B	100 : 70
Density	mix, at 23 °C	g/cm ³	1.23
Viscosity	mix, at 23 °C	mPas	1500
Working time (14.6 kg working packs)	at 10 °C / 60 % rel. air humidity	min.	20 - 25
	at 20 °C / 50 % rel. air humidity	min.	10 - 15
	at 25 °C / max. 75 % rel. air hum.	min.	4 - 7 !!!!!
Re-coating interval	at 20 °C / 50 % rel. air humidity		
	minimum maximum	h h	min. 1-2 min. 8
Ready for foot traffic	at 10 °C	h	min. 2
	at 20 °C	h	min. 1
Substrate and application temperature	minimum	°C	0
	maximum	°C	25
Max. permissible relative humidity		%	75
Shore D hardness	after 7d		60
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 PAS 111 LE 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.

Before mixing, the A-component must be mechanically stirred, then the B-component is poured into the container of the A-component.

Make sure that the B component runs out completely, carefully scraping out the container with a spatula. Scrape the sides and the bottom of the pail several times with the mixer 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](#).

We recommend mixing the two components quickly due to the fast-curing properties and the associated [short pot life](#). [After mixing, the material must be emptied quickly from the container](#) and distributed immediately as the processing time can thus be extended.

[For small areas and foreseeable longer service lives of the mixed material, we recommend mixing only partial quantities in the corresponding mixing ratio.](#)

Consumption

The consumption of CONIFLOOR PAS 111 LE used as primer is approximately [between 0.3-0.5 kg/m² depending](#) on the condition and porosity of the substrate.

A 2nd coat of [0.2-0.4 kg/m² of primer](#) CONIFLOOR PAS 111 LE broadcasted with oven-dried sand is [mandatory](#) in order to seal concrete pores and capillaries completely.

If necessary, CONIFLOOR PAS 111 LE can also be used as a scattered primer or scattered scratch coat filled up to 30% with fire-dried quartz sand 0.1-0.3 mm. However, the resin consumption should not exceed 0.6 kg/m² in one layer. CONIFLOOR PAS 111 LE must be broadcasted [immediately \(within 2 – 3 minutes\)](#) with fire-dried quartz sand of the grain size 0.3-0.8 mm in excess. (Consumption min. approx. 1.5-3.0 kg/m² depending on the consumption of the resin).

The above consumption figures are intended [as a guide only](#) and may increase on very rough or porous substrates.

Unevenness $\geq 0.5\text{mm}$ must be equalized by an additional scratch coat.

[CONIFLOOR PAS 111 LE 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 PAS 111 LE is applied by distributing with a rubber squeegee \(middle hard to hard\), if re-rolling is necessary it must be done immediately.](#) Avoid puddles or thick layers of priming resin. [Low layer thicknesses accelerate, and high layer thicknesses slow down the hardening behaviour.](#)

PUR-, PUA- and PAS-Coatings

For [surfaces with low to medium mechanical stress](#), a reworking with polyurethane, polyaspartic or polyurea resins can be carried out without sanding [within the given reworking time, or the primer that has not been broadcasted with quartz sand must be sanded well.](#)

For higher mechanical load we recommend [broadcasting the still fresh primer layer CONIFLOOR EP 111 LE immediately \(within 2 – 3 minutes\)](#) with [fire-dried quartz sand](#) with a grain size of [0.3-0.8 mm](#) (consumption at least approx. 0.5- 0.8 kg / m²). Avoid scattering in excess.

Temperatures

Both the [processing time](#) of CONIFLOOR PAS 111 LE and the [hardening of the covering](#) are largely determined by the temperature of the material, the substrate and the environment, [the layer thickness and the humidity](#). At low temperatures, the chemical reactions are generally delayed; This also extends the pot, walk-on and recoat times. At the same time, the consumption per unit area may increase as a result of increasing viscosity. Conversely, chemical reactions are accelerated at high temperatures, so that the above times are correspondingly shortened.

For CONIFLOOR PAS 111 LE to cure completely, the mean temperature of the substrate must not fall below the lowest processing or object temperature.

In addition, the material must be protected from direct contact with water for approx. 2 hours (at 20 ° C) after application. During this time, the action of water on the surface can cause white discoloration (carbamate formation) and / or stickiness, which significantly impairs the adhesion to the subsequent coating and therefore has to be removed if necessary.

[Here again the note](#) that the [processing and finishing with paint rollers must not exceed approx. 2-3 minutes](#).

The [paint rollers must be changed regularly](#) as they can begin to harden at the edges and cause rolling or blistering. We recommend doing this [after approx. 15 - 20 minutes](#).

Cleaning agent

Re-usable tools should be cleaned carefully with CLEANER 40 or e.g., Xylene.

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.

The substrate must be prepared using suitable measures, such as shot blasting or diamond grinding, so that the requirements listed above are met. Fill broken areas and defects in the substrate with CONICA EP mortar flush with the surface.

The substrate to be coated must have an average adhesive tensile strength of at least 1.5 N / mm² (verification e.g., with Herion device, pulling speed 100 N / s).

The substrate temperature must be at least 3 ° C above the prevailing dew point temperature.

The substrate to be coated must be secured against rising damp (pressing water).

The consumption and the quantities given are guidelines and may be higher on very rough or porous surfaces. If necessary, exact consumption values can be determined on the object after the substrate has been pre-treated.

Pack size

CONIFLOOR PAS 111 LE is supplied in 14.6 kg and 25 kg working packs.

Colour

Beige

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 PAS 111 LE 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 PAS 111 LE 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 / UKCA-Label:**

See Declaration of Performance and CE / UKCA mark

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