

CONIFLOOR 450

Low emission, Total solid, Self-Levelling, Pigmented, Elastic, Decorative, Two Component PUR Coating for Indoor Floorings

Product description

CONIFLOOR 450 is a two component, low emission, aliphatic, total solid, self-levelling and pigmented decorative PUR coating.

Fields of application

CONIFLOOR 450 is used as a decorative coating on mineral, primed substrates for indoor floorings and – when exposed to UV light – has a good colour stability.

Used as a decorative coating CONIFLOOR 450 can be applied "wet-in-wet", thus allowing a unique design on the floor.

CONIFLOOR 450 is used in the systems CONIFLOOR UPD and CONIFLOOR UPD+.

Properties

CONIFLOOR 450 is an elastic thus comfortable coating and easy to apply.

CONIFLOOR 450 – when exposed to UV-light – exhibits good colour stability.

In order to improve the resistance to scratches and dirt and as well as to improve the mechanical and chemical durability CONIFLOOR 450 needs to be sealed with our transparent top coat CONIFLOOR 540 W.

Technical Data

Mixing ratio	in parts by weight			100 : 30
Density	mix,	at 23 °C	g/cm ³	1.36
Viscosity	mix,	at 23 °C	mPas	4600
Processing time	at 20 °C			min. approx... 40
Ready for foot traffic	at 10 °C		h.	24 - 36
	at 20 °C		h	18 - 24
	at 30 °C		h	14 - 18
Re-coating interval	at 20 °C		earliest after	h. 14
			latest after	h 48
Fully cured:	ready for chemical strain	at 20 °C	d	2 - 3
	ready for mechanical strain	at 20 °C	d	7
Substrate and application temperature	minimum		°C	10
	maximum		°C	30
Permissible relative humidity	maximum		%	75
Shore A hardness	after 7 d			86

Above figures are guide values and should not be used as a base for specifications!

Application method

CONIFLOOR 450 is supplied in the correct proportions of component A (resin) and component B (hardener). Pour component B into component A and ensure that the pail containing component B is emptied **completely**.

To achieve a homogenous mix, thoroughly mix with a slowly rotating mixing device at about 300 rev/min. Ensure that the mixing device reaches side and bottom areas of the mixing vessel.

The **mixing** process takes approximately **2 - 3 minutes** and should be performed until the blend is **homogenous** and streak free.

Pour the mix into another **clean** pail and mix it again for 1 additional minute.

The **temperature** of both components should be between 15-25 °C.

CONIFLOOR 450 is – in used in the systems CONIFLOOR UPD or CONIFLOOR UPD+ (with a pre-fabricated rubber mat) - applied directly using a squeegee, scraper or a notched trowel. The toothing of the tool needs to be adjusted to the calculated consumption per 1m².

Working life and curing time of CONIFLOOR 450 are influenced by the ambient and substrate temperature. At low temperatures, the chemical reactions are slowed down; this lengthens the pot life, re-coating interval and open time. High temperature and humidity accelerate chemical reactions so the contrary is true.

To fully cure the material, the substrate and working temperature must not fall below the minimum.

After application, the material should be protected from direct contact with water for approx. 10 hours (at 15 °C). Within this period, contact with water can cause foaming on the surface of the coating.

The relative **humidity** in the air may not exceed **75%**.

Cleaning agent

Re-usable tools should be cleaned carefully with CLEANER 40 or other suitable solvents.

Never use water or alcoholic solvents as cleaners!

Substrate condition

CONIFLOOR 450 is applied as an elastic and decorative coating on the prepared and primed surface.

Substrates to be coated must be firm, dry, load bearing and free of loose and brittle particles and substances, which impair adhesion such as oil, grease, rubber skid marks, paint or other 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 the pre-treatment the bond strength of the concrete must be at least 1.5N/mm².

The sub base must contain a moisture barrier (damp proof membrane D.P.M.). The **moisture level** must not exceed **4 %**.

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

As for the rest the sections of the requirements concerning substrates to be coated shown in the according guidelines apply.

Pack size

CONIFLOOR 450 is supplied in 13 or 25 kg (metal) working packs. Components A and B are supplied in the correct proportions and delivered separately.

Consumption

Depending on the substrate and the thickness of the layer, the consumption rate is at least 2.5 – 3.0 kg/m².

Colour

Colours upon request

Storage

Store in unopened pails under dry conditions at a temperature range of 5-25 °C.

Do not expose to direct sunlight.

Before use, please see "best before" date on the pail / drum.

Safety precautions

CONIFLOOR 450 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 450 meets the requirements of the EC directive 2004/42/EC.



CE-Label:

See Declaration of Performance.

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