

CONIFLOOR 431

Total solid, self-Levelling, hard and tough two component, epoxy-based textured coating

Product description

CONIFLOOR 431 is a two component, solvent free, structured, pigmented, hard and mechanical resistant epoxy coating.

Fields of application

CONIFLOOR 431 is used as a structured coating and used as a coating on mineral, with CONIFLOOR 110 primed substrates for indoor floorings with low to medium mechanical strain.

CONIFLOOR 431 is used in our indoor flooring system CONIFLOOR IET.

Properties

CONIFLOOR 431 exhibits high mechanical properties, resistant to abrasion and is easy to apply.

CONIFLOOR 431 is easy to clean and resistant to water, sea and waste water, a variety of alkaline substances, diluted acids, brine, mineral oils, lubricants and fuels.

The yellowing which occurs when CONIFLOOR 431 is exposed to UV light does not affect its mechanical properties.

Technical Data

Mixing ratio	in parts by weight			100 : 16
Density	mix,	at 23 °C	g/cm ³	1.49
Viscosity	mix,	at 23 °C	mPas	thixotropic
Processing time	at 12 °C			min. approx. 35
Re-coating interval / ready for foot traffic	at 20 °C			minimum h 14
				maximum h 36
Substrate and application temperature	minimum			°C 10
	maximum			°C 30
Permissible relative humidity	maximum			% 75
Ready for	mech. strain	at 20 °C	d	3
	light mech. strain	at 20 °C	d	1
	chem. strain	at 20 °C	d	7
Shore D hardness	after 28 d			81

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

Application method

CONIFLOOR 431 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 **at least 2 to 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 2 additional minutes.

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

CONIFLOOR 431 can then be applied directly to the pre-treated substrate.

CONIFLOOR 431 is applied using a squeegee, scraper or a notched trowel and at the end a structure roller.

Working life and curing time of CONIFLOOR 431 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. 24 hours (at min. 15 °C). Within this period, contact with water can cause white discoloration and carbamate formation on the surface of the coating.

The relative **humidity** level may not exceed **75%**.

Consumption

The **consumption rate** of CONIFLOOR 431 is min. 600 g/m² up to max. 800 g/m².

Cleaning agent

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

Substrate condition

Cement bound 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 mandatory.

After the pre-treatment the bond strength of the concrete must be at least 1.5 N/mm².

The **moisture level** must not exceed **4 %**.

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

The sub base must contain a moisture barrier (damp proof membrane D.P.M.).

After the pre-treatment the bond strength of the concrete must be at least 1.5 N/mm².

Pack size

CONIFLOOR 431 is supplied in 25 kg (metal) working packs. Components A and B are supplied in the correct proportions and delivered separately.

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 431 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 431 meets the requirements of the EC directive 2004/42/EC.



CE-Label:

See Declaration of Performance.