

CONIFLOOR 460

Two part PUR coating, pigmented, low emission, total solid, self-levelling, hard

Product description

CONIFLOOR 460 is a two component, solvent free and **low emission**, self-levelling and pigmented, **hard PUR coating**.

Fields of application

CONIFLOOR 460 is used as a slightly statically crack bridging self-levelling coating on mineral, primed (with CONIFLOOR 110, 112 or 116LE) substrates for indoor floorings with medium to heavy mechanical stress.

Properties

CONIFLOOR 460 exhibits high mechanical properties and is easy to apply. Due to its hard properties the coating CONIFLOOR 460 is still to bridge deformations (e.g. occurring static cracks) in the sub-base.

CONIFLOOR 460 is easy to clean and resistant to water, sea and wastewater, a variety of alkaline substances, diluted acids, brine, mineral oils, lubricants and fuels.

The yellowing, which occurs when CONIFLOOR 460 is exposed to UV light, does not affect its mechanical properties. To avoid the yellowing the coating should be sealed with CONIFLOOR 520 CW which at the same time increases the resistance against scratches.

CONIFLOOR 460 is used in our indoor flooring systems

- CONIFLOOR IPS H

and others.

Technical Data

Mixing ratio	in parts by weight			2 : 1
Density	mix,	at 23 °C	g/cm ³	1.09
Viscosity	mix,	at 23 °C	mPas	900
Pot life	at 23 °C		min	45
Re-coating interval / ready for foot traffic	minimum, at 10 °C		h	8
	maximum, at 10 °C		d	2
	minimum, at 23 °C		h	6
	maximum, at 23 °C		d	2
	minimum, at 30 °C		h	4
	maximum, at 30 °C		d	1
Substrate and application temperature	minimum		°C	10
	maximum		°C	30
Permissible relative humidity	maximum		%	80
Tensile strength	DIN 53504, 3 d 40 °C		N/mm ²	24
	DIN 53504, 14 d 80 °C		N/mm ²	41
Elongation at break	DIN 53504, 3 d 40 °C		%	82
	DIN 53505, 14 d 80 °C		%	30
Tear strength	DIN 53504, 3 d 40 °C		N/mm	123
	DIN 53504, 14 d 80 °C		N/mm	35
Shore D hardness	after 24 h, at 23 °C and 50 % relative humidity			55
	after 28 d			78

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

Application method

CONIFLOOR 460 is supplied in working packs, 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 mix is homogenous and streak free.

Pour the mix into another clean pail and thoroughly mix again for at least another minute.

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

CONIFLOOR 460 is applied to the pre-treated substrate using a squeegee, scraper or a notched trowel. The teeth size of the tool needs to be adjusted to the calculated consumption per 1m².

When working at the recommended ambient and substrate temperatures, it is not necessary to flame or to spike roll the coating in order to obtain a bubble free and level surface.

The ambient and substrate temperature influences working life and curing time of CONIFLOOR 460. 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. 6 hours. Within this period, contact with water can cause foaming on the surface of the coating.

The humidity in the air should not exceed 80%.

Cleaning agent

Re-usable tools should be cleaned carefully with CLEANER 40 or other suitable solvents (e.g. butyl acetate).

Never use water or alcoholic solvents as cleaners.

Substrate condition

Substrates to be coated have to be firm, dry and load bearing, 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 cementitious 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 1.5N/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.).

CONIFLOOR 460 is applied on the pre-treated and with CONIFLOOR 110, 112 or 116 LE primed and with sand broadcast sub-base.

The coating can be applied within 3 days after the application of the sanded epoxy coating without the use of a primer.

In case of coatings or pore sealers older than 3 days, grinding and cleaning with a 1:1 mixture of water : acetone of the surface is mandatory. After thoroughly drying, a coating with CONIFLOOR 460 is possible.

Pack size

CONIFLOOR 460 is supplied in 24 kg working packs. A and B component are supplied separately in the correct proportions.

Colours

Standard colours after approx. RAL or on request

Note: Please note that aromatic polyurethane resins turn yellow due to UV light. This also applies to indoor applications. As we generally recommend an additional UV and colour-stable, pigmented aliphatic polyurethane resin sealing lacquer on these products, no colour matching is performed. The colour meets colour standards such as RAL or NCS and others with a colour deviation of $\Delta E \leq 2$ (otherwise $\Delta E \leq 1$).

Please also note our supplementary information on colours and surfaces.

If necessary, and especially with very light shades, it may be necessary to seal twice in white shades up to three times. .

If you have any questions, please contact the technical service of CONICA AG.

Storage

Store in unopened pails under dry conditions at a temperature range of 15 - 25 °C.

Do not expose to direct sunlight.

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



Safety precautions

CONIFLOOR 460 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 460 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:

See Declaration of Performance.

CONICA AG
Industriestrasse 26
8207 Schaffhausen
Suisse

Tel.: + 41 52 644 3600
Fax: + 41 52 644 3699
info@conica.com
www.conica.com

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