

CONIFLOOR 440/1 FL

Two part PUR coating, pigmented, flame retardant, low emission, high elastic, self-levelling for indoor comfort and decorative floorings

Product description

CONIFLOOR 440/1 FL is a two component, solvent free, self-levelling, [low emission](#), [pigmented](#), [elastic and flame retardant](#), [elastic](#) PUR coating.

The product shows high elasticity, impact sound reducing properties and high resistance to impact at a medium hardness.

Fields of application

CONIFLOOR 440/1 FL is used as flame retardant coating on pre-fabricated rubber or foam mats which are prepared with CONIFLOOR 340 FL (flame retardant) pore sealer or on the liquid mat CONIFLOOR 445 LI.

To improve the chemical resistance as well as UV and colour stability, a sealing lacquer (CONIFLOOR 541 CW) has to be applied on top of CONIFLOOR 440/1 FL.

CONIFLOOR 440-1 FL is used in the CONICA systems

Properties

CONIFLOOR 440/1 FL exhibits high mechanical properties, good self-levelling and excellent de-aeration properties.

- CONIFLOOR LPC+ FL
- CONIFLOOR LPC+ LI (N)

or in other systems

Technical Data

Mixing ratio	in parts by weight			100 : 28
Density	mix,	at 23 °C	g/cm ³	1.27
Viscosity	mix,	at 23 °C	mPas	2000
Pot life	at 12 °C		min	47
	at 23 °C		min	35
	at 30 °C		min	25
Re-coating interval ready for foot traffic	at 23 °C and 50 % relative humidity		h	12
Substrate and application temperature	minimum		°C	10
	maximum		°C	30
Permissible relative humidity	maximum		%	75
Shore A hardness	after 24 h, at 23 °C and 50 % relative humidity			55
	after 28 d			80
Tensile strength	DIN 53504		N/mm ²	5
Elongation at break	DIN 53504		%	150
Tear strength	DIN 53515		N/mm	17
<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 440/1 FL is supplied in the correct proportions of component A (resin) and component B (hardener).

The [A-component](#) has to be [pre-mixed](#), to secure a [homogeneous](#) material.

After the pre-mix, pour component B into component A and ensure that 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 needs to take 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 440/1 FL is applied to the pre-treated (pore sealed with CONIFLOOR 340 FL) pre-fabricated rubber or foam mat or on CONIFLOOR 445 LI using a squeegee, scraper or a notched trowel. The teeth size has to be chosen according to the calculated consumption per m².

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 well levelled surface.

The ambient and substrate temperature influences working life and curing time of CONIFLOOR 440/1 FL. 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. 12 hours (at 20 °C). Within this period, contact with water can cause foaming on the surface of the coating.

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

CONIFLOOR 440/1 FL is normally applied to the pre-fabricated rubber granule mat, which has been pore-sealed with CONIFLOOR 340 FL or on CONIFLOOR 445 LI by using a squeegee, scraper or a notched trowel.

In case of coatings or pore sealers [older](#) than [72 hours](#), grinding and cleaning with a 1:1 mixture of water : acetone of the surface is mandatory.

After thoroughly drying, a coating with CONIPUR 440/1 FL is possible. 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.

The [temperature](#) of the substrate must be at least [3°C](#) above the current dew point temperature.

In order to ensure a 100 % seal of elastic mat layers, an [interlayer](#) of approx. 0.5 kg/m² CONIFLOOR 340 FL must be applied, prior to the final coat of CONIPUR 440/1 FL, using a notched trowel or squeegee. This eliminates the possibility of bubbles in the coating.

Pack size

CONIFLOOR 440/1 FL is supplied in 25 kg working packs. Components A and B are supplied in the correct proportions and delivered separately.

Consumption

The consumption rate of the coating CONIFLOOR 440/1 FL is at least 2.5 kg/m², which corresponds to a coating layer of approximately 1.9 mm.

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 5 - 25 °C.

Do not expose to direct sunlight.

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

Safety precautions

CONIFLOOR 440/1 FL 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 440/1 FL 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.

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