

CONIFLOOR 440 FL

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

Product description

CONIFLOOR 440 FL is a two component, solvent free, self-levelling, low emission, pigmented, elastic and flame retardant PUR coating.

Fields of application

CONIFLOOR 440 FL is used as flame retardant coating in our flooring system CONIFLOOR LPC+ fl (flame retardant), in case of higher requirements regarding the flame resistance of the flooring system .

Properties

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

The product shows high elasticity, noise dampening and high resistance to impact at a medium hardness.

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 FL.

Technical Data

Mixing ratio	in parts by weight		4.2 : 1
Density	mix,	at 23 °C	g/cm ³ 1.34
Viscosity	mix,	at 23 °C	mPas 2600
Pot life	at 12 °C	min	45
	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	8
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		65
	after 28 d		85
Tensile strength	DIN 53504	N/mm ²	5
Elongation at break	DIN 53504	%	170
Tear strength	DIN 53515	N/mm	21

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

Application method

CONIFLOOR 440 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 FL is applied to the pre-treated (pore sealed with CONIFLOOR 340 FL) pre-fabricated rubber or foam mat 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 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 15 °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 FL is normally applied to the pre-fabricated rubber granule mat, which has been pore-sealed with CONIFLOOR 340 FL by using a squeegee, scraper or a notched trowel.

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 CONIPUR 440 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 layers, an **interlayer** of approx. 0.5 kg/m² CONIFLOOR 440 FL must be applied, prior to the final coat of CONIPUR 440 FL, using a notched trowel or squeegee. This eliminates the possibility of bubbles in the coating.

Pack size

CONIFLOOR 440 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 FL is at least 2.5 kg/m², which corresponds to a coating layer of approximately 1.8 mm.

Colour

Grey

Important:

Please note that the CONICA **top coat** has sufficient **coverage strength** on top of the grey coloured CONIFLOOR 440 FL (for further advices please contact Technical Service CONICA). It might be necessary to apply the top coat twice.

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



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

Whilst any information contained herein is true, accurate and represents our best knowledge and experience, no warranty is given or implied with any recommendations made by us, our representatives or distributors, as the conditions of use and the professional competence involved in the application of the product are beyond our control.

As all CONICA data sheets are updated on a regular basis, it is user's responsibility to obtain the most recent issue. Registered users can obtain the actual data sheets from our webpage. Hard copies are available upon request.