

CONIFLOOR 460

Two part PUR coating, 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 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 can 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 |
| <i>Above figures are guide values and should not be used as a base for specifications!</i> | | | |

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 to the pre-treated and primed sub-base.

CONIFLOOR 460 is applied as a wear coat onto a sanded epoxy primer.

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.

Colour

RAL 7032, other colours on request

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.