

CONIPUR 3380 FL

Flame Retardant, Low Emission, Two Component, Self-Levelling PUR Coating for Sports Floorings

Product description

CONIPUR 3380 FL is a two component, solvent free, self-levelling, flame retardant and low emission PUR coating.

Fields of application

CONIPUR 3380 FL is used as a flame retardant coating for point-, area-, mixed- and combined-elastic sports floorings.

Properties

CONIPUR 3380 FL exhibits high mechanical, good self-levelling and excellent de-aeration properties.

To improve the chemical resistance as well as the light and colour stability, a sealing lacquer must be applied.

Technical Data

Mixing ratio	in parts by weight		100 : 28
Density	component A, at 23 °C	g/cm ³	approx. 1.28
	component B, at 23 °C	g/cm ³	approx. 1.20
	mix, at 23 °C	g/cm ³	approx. 1.27
Viscosity	component A, at 23 °C	mPas	approx. 3000
	component B, at 23 °C	mPas	approx. 200
	mix, at 23 °C	mPas	approx. 2000
Pot life	at 12 °C	min	approx. 47
	at 23 °C	min	approx. 35
	at 30 °C	min	approx. 25
Re-coating interval ready for foot traffic	at 23 °C and 50 % relative humidity	h	approx. 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		approx. 55
	after 28 d		approx. 80
Tensile strength	DIN 53504	N/mm ²	approx. 5.0
Elongation at break	DIN 53504	%	approx. 150
Tear strength	DIN 53515	N/mm	approx. 17.0
<i>Above figures are guide values and must not be used as a base for specifications!</i>			

Application method

CONIPUR 3380 FL is supplied in the correct proportions of component A (resin) and component B (hardener).

The optimal **temperature** of the material before and during application is between **15** and **25 °C**.

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

Pour component B into the pail of component A and ensure that pail containing component B is emptied completely.

To achieve a homogenous and intensive 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 **at least 2 minutes** and must be performed until the blend is **homogenous** and streak free.

Pour the mix into another **clean** pail and **mix again** for an additional minute.

CONIPUR 3380 FL is **applied** on the pre-treated substrate using a **dented rubber squeegee**.

For a **2mm** layer the consumption is approximately **2.6 kg/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.

Working life and curing time of CONIPUR 3380 FL are influenced by the humidity of the air, the ambient and substrate temperature as well as the temperature of the material. 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 medium temperature of the substrate must not fall below the minimum application / substrate temperature. After application, the material must 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 must be cleaned carefully with CLEANER 40 or other suitable solvents (e.g. butyl acetate). Never use water or alcoholic solvents as cleaners!

Substrate condition

CONIPUR 3380 FL is generally applied on pore-sealed wooden load distribution plates, on pore-sealed prefabricated rubber granule mats or pore-sealed in-situ installed rubber granulate mats, on pore-sealed polyurethane composite foam mats or directly on the liquid laid elastic layer CONIPUR 3335.

In order to ensure that the **pores** of the load distribution plates or the elastic layer are **fully closed**, CONIPUR 220 or CONIPUR 220 FL must be applied in **two layers** before applying the coating. This is the only way to safely avoid bubbles and holes in the final coating. Only when using CONIPUR 3335 the pore sealer is **not** necessary!

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 3380 FL is possible.

For application on **other substrates**, preliminary **tests** must be performed in order to determine if or which primer is needed.

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 only necessary, when the layer is soiled or the re-coating intervals have been exceeded.

After the pre-treatment, the **bond strength** of the concrete must be at least 1.5 N/mm². The sub base must contain a **moisture barrier** (damp proof membrane D.P.M.).

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

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

Pack size

CONIPUR 3380 FL is supplied in 25 kg working packs. Components A and B are supplied in the correct proportions and delivered separately.

Colour

Standard colours: ca. RAL 1001 (beige), ca. RAL 1015 (light ivory), ca. RAL 3009 (red), ca. RAL 5024 (blue), ca. RAL 6021 (green) and ca. RAL 7032 (grey) - ca. = approximate RAL.

The above colours do not represent an exact match to the RAL colour. As these coatings have to be sealed with a top coat, the exact match to RAL is not necessary. Our top coats feature a good opacity and are available in many different colours.

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

CONIPUR 3380 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.

CONIPUR 3380 FL meets the requirements of the EC directive 2004/42/EC.