

CONIPUR 249 FL

Flame Retardant, Two Component, Self Levelling Hard PUR Coating

Product description

CONIPUR 249 FL is a solvent free, self-levelling, flame retardant, two component coating based on a liquid polyurethane resin.

Due to its hardness, CONIPUR 249 is load distributing.

In order to obtain mixed elastic indoor systems CONIPUR 249 FL is covered with CONIPUR 224 FL.

Fields of application

CONIPUR 249 FL is used for sports hall systems as a coating on special polyolefin foam mat, laminated with a glass fibre fabric.

Properties

CONIPUR 249 FL exhibits excellent self-levelling and de-aerating properties.

Technical Data

Mixing ratio	in parts by weight		4 : 1
Density	component A, at 23 °C	g/cm ³	approx. 1.41
	component B, at 23 °C	g/cm ³	approx. 1.22
	mix, at 23 °C	g/cm ³	approx. 1.37
Viscosity	component A, at 23 °C	mPas	approx. 5700
	component B, at 23 °C	mPas	approx. 200
	mix, at 23 °C	mPas	approx. 2300
Pot life	at 23 °C	min	approx. 48
Re-coating interval / ready for foot traffic	minimum, at 23 °C	h	approx. 12
Substrate and application temperature	minimum	°C	10
	maximum	°C	30
Permissible relative humidity	maximum	%	75
Shore D hardness	after 24 h, at 23 °C and 50 % relative humidity		41
	after 28 d		64

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

Application method

CONIPUR 249 FL is supplied in working packs, 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.

Pre-mix of **A-component** for approximately one minute is absolutely **necessary** to secure a homogeneous material.

After pre-mixing of the A-component 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 **at least two minutes** and must 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.

CONIPUR 249 FL is applied to the pre-treated substrate using an **aluminium squeegee**.

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.

Important

Due to the comparatively high viscosity of the flame retardant coating the application **must** be done with a **notched aluminium squeegee**.

The use of a pen-shaped or a rubber squeegee is not recommended, as the coating can not be distributed evenly with these tools. This in turn will result in an uneven surface ("waves", traces of the squeegees) which will not be levelled by the application of the following coating / top coat.

Working life and curing time of CONIPUR 249 FL are influenced by the ambient and substrate temperature. 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 must 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.

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 249 FL is applied on a polyolefin foam mat laminated with glass fibre fabric, saturated with CONIPUR 248.

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.

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

Pack size

CONIPUR 249 FL is supplied in 25 kg working packs. A- and B-component are supplied separately in the correct proportions.

Colour

grey

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

CONIPUR 249 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 249 FL meets the requirements of the EC directive 2004/42/EC.