

CONIPUR 227

Two Component, Self-Levelling PUR Coating for Sports Halls

Product description

CONIPUR 227 is a two component, solvent free, self-levelling PUR coating.

Fields of application

CONIPUR 227 is used as a coating for indoor sports surfacing systems on top of pre-fabricated rubber granule mats (maximum thickness 9 mm), in-situ built rubber granule mats, PUR foam mats or a polyethylene foam mat coated with a hard PUR coating.

Depending on the system structure, point elastic or combined elastic sports hall surfaces can be installed.

CONIPUR 227 can also be used for the re-topping of existing point elastic PUR sports hall floorings.

Properties

CONIPUR 227 exhibits good self-levelling, good de-aeration and fast curing.

To improve the chemical resistance, light and colour stability and sliding properties, a sealing lacquer has to be applied on top of CONIPUR 227.

Technical Data

Mixing ratio	in parts by weight		5 : 1
Density	component A, at 23 °C	g/cm ³	approx. 1.44
	component B, at 23 °C	g/cm ³	approx. 1.22
	mix, at 23 °C	g/cm ³	approx. 1.40
Viscosity	component A, at 23 °C	mPas	approx. 1300
	component B, at 23 °C	mPas	approx. 100
	mix, at 23 °C	mPas	approx. 900
Pot life	at 23 °C	min	approx. 75
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		60
	after 28 d		80
Tensile strength	DIN 53504	N/mm ²	3.9
Elongation at break	DIN 53504	%	74
Tear strength	DIN 53515	N/mm	8.1

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

Application method

CONIPUR 227 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 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 blend is **homogenous** and streak free.

Pour the mix into another **clean** pail and mix it again for 1 additional minute.

CONIPUR 227 is **applied** to the pre-treated substrate using a squeegee, scraper or a notched trowel. 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 227 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. 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 227 is usually applied onto **pore sealed** pre-fabricated or in-situ rubber granule mats.

To pore seal **prefabricated** elastic layers, **CONIPUR 220** is applied in **2 layers**. This will help to avoid bubbles / holes in the following coatings.

To pore seal **in-situ** built elastic layers, **CONIPUR 203** is applied in **2 coats**, the **first** coat to be **ground**, the second not.

In case CONIPUR 227 must be applied to coatings or pore sealers **older** than **3** days, the surface must be **ground** slightly and be **washed** with a 1:1 mixture of acetone and water. After the surface is completely dry, CONIPUR 227 can be applied.

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.

CONIPUR 227 can also be used for the **re-topping** of existing sports hall surfaces. Crack free surfaces must be ground and thoroughly be cleaned using an alkaline cleaning agent. After drying, CONIPUR 227 can be applied.

In special cases the application of CONIPUR 72 may be necessary. **Preliminary tests** must be carried out.

For specification of type and thickness of elastic layers which can be used with CONIPUR 227 please refer to CONICA's system data sheets.

Pack size

CONIPUR 227 is supplied in 25 kg working packs. Components A and B are supplied in the correct proportions and delivered separately.

Colour

Standard colours: RAL 6021 (green), RAL 7032 (grey), RAL 1001 (beige), RAL 5024 (blue) and oxide red. Other colours upon 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

CONIPUR 227 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 227 meets the requirements of the EC directive 2004/42/EC.