

CONIPUR 236

2 Component, Self-Levelling, Spike Usable PUR Coating for Sports Halls

Product description

CONIPUR 236 is a two component, solvent free, self-levelling PUR coating.

Fields of application

CONIPUR 236 is used as a spike usable coating for indoor sports halls on resilient base layers, such as pre-fabricated or in-situ rubber granule mats. Depending on the system structure, point elastic or combined elastic sports hall surfaces can be installed.

Properties

CONIPUR 236 exhibits good application properties, excellent self-levelling and good de-aeration.

Due to the extremely high values for tensile strength, elongation, tear propagation and impact strength, CONIPUR 236 can be used as a coating for spike-usable sports flooring indoor systems. In order to improve chemical resistance, light and colour stability, a sealer has to be applied.

The **minimum** layer thickness of CONIPUR 236 for spike usable sports floors is **4 mm**.

The appearance of **spike traces** on the spike usable coating **cannot be avoided**.

Due to the high tear resistance, the punctual injuries caused by spikes do not get bigger and thus **no progressive** destruction of the surface takes place.

Based on our experience we recommend the use of pyramidal spikes, which are no longer than 5mm.

These are manufactured, for example, by the company Omni-Lite in the USA - further information at <http://www.omni-lite.com>



Omni-Lite 5mm (3/16")
Pyramid Spikes 100ct



Omni-Lite 5mm (3/16")
Xmas Spikes 100ct

Longer or differently shaped spikes will damage the surface and therefore it will be destroyed more quickly.

The normally used steel spikes for athletic tracks are not suitable for this type of multipurpose sports hall.

In highly frequented and mechanically highly stressed areas there will be damages, which can be repaired locally if necessary.

At the moment, CONIPUR 236 is one of the highest quality sports hall coatings currently available.

A sports flooring made with CONIPUR 236 can be used for normal gymnasium traffic after usual times (approx. 7 days after sealing). However, **resilience** with **spikes** is only possible after **8 weeks**.

Technical Data

Mixing ratio	in parts by weight		100 : 43
Density	component A, at 23 °C	g/cm ³	approx. 1.26
	component B, at 23 °C	g/cm ³	approx. 1.20
	mix, at 23 °C	g/cm ³	approx. 1.24
Viscosity	component A, at 23 °C	mPas	thixotropic
	component B, at 23 °C	mPas	approx. 200
	mix, at 23 °C	mPas	approx. 1100
Pot life	at 12 °C	min	approx. 40
	at 23 °C	min	approx. 37
	at 30 °C	min	approx. 23
Ready for foot traffic (careful)	at 23 °C and 50 % rel. humidity	h	approx. 24
Re-coating interval Ready for foot traffic	with CONIPUR 236 (23 °C, 50 %)	h	24
	with CONIPUR 67 (23 °C, 50 %)	h	48
Usable with spikes		after	8 weeks
Substrate and application temperature	minimum	°C	10
	maximum	°C	30
Permissible relative humidity	maximum	%	60
Shore A hardness	after 24 h, at 23 °C, 50 % relative humidity		53
	after 28 d		80
Tensile strength	DIN 53504	N/mm ²	14.6
Elongation at break	DIN 53504	%	380
Tear strength	DIN 53515	N/mm	25.0
<i>Above figures are guide values and must not be used as a base for specifications!</i>			

Important

The installation has to be **accompanied** by a CONICA **Supervisor** - please contact our technical service in time.

Application method

CONIPUR 236 is supplied in the correct proportions of component A (resin) and component B (hardener).

The **temperature** of both **components must** be between **25 - 30 °C** before and during application.

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

Due to its thixotropic character, **component A** must be **premixed** for **three minutes**. After having a homogeneous and liquid material, component B is added and thoroughly mixed again. 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 one additional minute.

CONIPUR 236 is **applied** to the pre-treated substrate using a **pin 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 well levelled surface.

The ambient and substrate temperature influences working life and curing time of CONIPUR 236. 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.

The 4 mm layer thickness has to be applied in 2 coats. This eliminates the possibility of bubbles in the coating due to an uncompleted seal of the elastic mat.

The relatively slow curing of CONIPUR 236 is due to its formulation and cannot be accelerated without a drastic cut of the application time.

The 2nd layer of CONIPUR 236 cannot be applied earlier than 24 h after application of the first layer (23 °C).

For sealers the minimum waiting time is 48 h.

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 236 is usually applied to pre-fabricated or in-situ rubber granule mats (previously sealed with CONIPUR 220 pore sealer).

In case CONIPUR 236 must be applied to surfaces older than 3 (CONIPUR 220) or 4 (CONIPUR 236) 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 236 can be applied.

Due to the very high mechanical properties, even thicker resilient layers do not require a reinforcing fabric.

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 236 is supplied in 25 kg working packs. A and B component are supplied separately in the correct proportions.

Colour

Standard colours: RAL 6021 (green), RAL 7032 (grey), RAL 1015, RAL 5012, 5014 or oxide red.

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 236 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 236 meets the requirements of the EC directive 2004/42/EC.