

# CONIPUR 3370

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

### Product description

CONIPUR 3370 is a two component, solvent free, low emission, self-levelling PUR coating.

### Fields of application

CONIPUR 3370 is used as a spike usable coating for indoor sports halls on pre-fabricated foam mats for the installation of point-elastic sports floors.

### Properties

CONIPUR 3370 exhibits good application properties, excellent self-levelling as well as a good de-aeration.

Due to the extremely high values for tensile strength, elongation, tear resistance and impact strength, CONIPUR 3370 is durable even when used with spikes (indoor application).

In order to improve chemical resistance, light and colour stability, a top coat must be applied.

The minimum layer thickness of CONIPUR 3370 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 5 mm.

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 create more damage on the surface and therefore destroy the surface quicker.

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 3370 is one of the highest quality sports hall coatings currently available.

A sports flooring made with CONIPUR 3370 **can be used** – also **with spikes** - after the usual curing time (approx. **7 days after sealing**).

## Technical Data

Mixing ratio	in parts by weight			100 : 46
<b>Density</b>	mix,	at 23 °C	g/cm <sup>3</sup>	approx. 1.1
<b>Viscosity</b>	mix,	at 23 °C	mPas	approx. 1500
<b>Pot life</b>	at 12 °C at 23 °C at 30 °C		min min min	approx. 60 approx. 40 approx. 15
<b>Recoating (grinding of the surface / sleeve covers)</b>	at 15 °C and 40% rel. humidity (RH) at 23 °C and 50 % RH		h h	approx. 48 approx. 16
<b>Usable with spikes</b>	after		days	7
<b>Substrate and application temperature</b>	minimum maximum		°C °C	10 30
<b>Permissible relative humidity</b>	maximum		%	75
<b>Shore A hardness</b>	after 24 h, at 23 °C, 50 % RH after 28 d			approx. 50 approx. 70
<b>Tensile strength</b>	DIN 53504		N/mm <sup>2</sup>	approx. 18
<b>Elongation at break</b>	DIN 53504		%	approx. 300
<b>Tear strength</b>	DIN 53515		N/mm	approx. 25
<i>Above figures are guide values and must not be used as a base for specifications!</i>				

### Application method

CONIPUR 3370 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.

Component A is premixed until homogeneous. Then component B is added ensuring 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 3370 is applied to the pre-treated substrate using a pin or toothed 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.

Application time, self-levelling and curing are mainly determined by the temperature of the material, substrate and environment. At low temperatures, chemical reactions are slowed down; pot life, re-coating interval and open time are longer. High temperatures, on the other hand, accelerate the chemical reactions, which in turn shortens the above-mentioned times.

For complete curing, the average temperature of the substrate must not fall below the lowest application or object 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.

The layer thickness of 4 mm required to achieve the optimum spike resistance is applied in one step (4.4 kg/m<sup>2</sup>).

**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 3370 is normally applied to the prefabricated composite foam mat that has been pore sealed twice with CONIPUR 220. We recommend the use of composite foam mats in 9 or 12 mm (e.g. CONIPUR mat (F40), Greiner PKR 310).

In the event of work interruptions of more than 3 days after application of the pore sealer (CONIPUR 220), the surface must be sanded and cleaned with a 1: 1 mixture of acetone and water. After the surface is completely dry, CONIPUR 3370 can be applied.

Due to the extraordinarily high mechanical properties of CONIPUR 3370 no reinforcement fabric needs to be used even with thick elastic mats.

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 3370 is supplied in 26.1 kg working packs. A and B component are supplied separately in the correct proportions.

**Colour**

Standard colours: RAL 1001 (beige), RAL 1015 (light ivory), RAL 5024 (blue) RAL 6021 (green) and RAL 7032 (grey).

These colours do not represent an exact match to the RAL colour. As indoor 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 original, unopened pails under dry conditions at a temperature range of 15 - 25 °C.

Avoid direct sunlight and storage at temperatures below the minimum storage temperature.

Before use, please see "best before" date on the pail / drum.

**Safety Precautions**

CONIPUR 3370 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 3370 meets the requirements of the EC directive 2004/42/EC.

**CE-Label:**

see Declaration of Performance

**UKCA-Label:**

see Declaration of Conformity

