

# CONIPUR 324

## Moisture Curing Single Component PUR Binder

### Product description

CONIPUR 324 is a moisture curing, solvent free, unpigmented PUR binder of medium viscosity.

It is based on MDI and TDI. The content of monomeric TDI (tolylene di-isocyanate) is very low.

### Fields of application

CONIPUR 324 is used as a moisture curing binder for recycled granules, fibres, gravel etc. in artificial turf shock pads (elastic layers and elastic sub-bases).

### Properties

Due to the medium viscosity, CONIPUR 324 is easily mixed with rubber or aggregates and there is hardly any run-off.

The long cure time of CONIPUR 324 allows day construction joints to be easily and correctly made.

The yellowing which occurs when CONIPUR 324 is exposed to UV light does not affect its mechanical properties.

### Technical Data

<b>Density</b>	DIN 53217, at 23 °C	g/cm <sup>3</sup>	approx. 1.06
<b>Viscosity</b>	at 23 °C	mPas	approx. 4500
<b>NCO content</b>	DIN 53185	%	approx. 8.5
<b>TDI monomer percentage</b>	DIN 55956	%	< 0.5
<b>Ready for foot traffic</b>	at 23 °C / 50 % rel. humidity	h	approx. 48
<b>Substrate and application temperature</b>	minimum	°C	15
	maximum	°C	30
<b>Permissible relative humidity</b>	minimum	%	40
	maximum	%	75
<i>Above figures are guide values and must not be used as a base for specifications!</i>			

## Application method

Before and during application the ideal **temperature** of CONIPUR 324 is between **15** and **25 °C**.

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

For the installation of an elastic layer or elastic sub-base, **mix** recycled rubber **granules**, rubber fibres, aggregates and **CONIPUR 324** in the ratio given in our corresponding system data sheets (CONIPUR EB, EU, ET soccer and ET hockey). Use a suitable mixing machine.

The material is applied using a specially designed **paving machine**. In order to achieve good surface strength, the elastic layer must be **compacted** thoroughly.

Particular attention must be paid to the construction **joints**, which, if possible, must be made before the material has significantly cured. If this cannot be accomplished cured joints must be primed with CONIPUR 72 and well trowelled.

The mechanical characteristics decrease if the indicated **quantity** of CONIPUR 324 is **lowered**, and the requirements of e.g. DIN 18035-7 might not be met.

The rubber **granules** must be **dry** as moisture will accelerate the curing of the binder making installation more difficult or even impossible and may result in the binder foaming, leading to an uneven surface and a weak mat.

The working life and curing time of CONIPUR 324 are influenced by the ambient, material and substrate temperature, as well as by humidity. At low temperatures and humidity, the speed of reaction is reduced resulting in a longer pot life, re-coating interval and open time. At the same time, the viscosity increases requiring increased mixing time and a higher consumption. At high temperatures and humidity, the speed of reaction is accelerated and the contrary is true.

When the **humidity** is **below 40 %** it may be necessary **carefully** to **mist spray** the mat with water to avoid unacceptable cure times, which might impair the quality of the elastic layer.

At **low temperatures**, curing can be **slightly accelerated** by use of catalyst. The quantity of catalyst needed depends on the ambient conditions and has to be defined at the job site and may vary daily.

As a guide, 0.2 % w/w of ACCELERATOR 10 or 12, as a percentage of the binder, may be used.

For the installation of the **granule mats**, we recommend the use of recycled **rubber** that have been **tested** and shown to be **suitable** for use with CONIPUR 324.

## Cleaning agent

Re-usable tools must be cleaned carefully with CLEANER 40 or other suitable solvents (e.g. butyl acetate) before curing has taken place. Never use water or alcoholic solvents as cleaners on uncured materials!

## Substrate condition

Substrates to be coated have to be dry, load bearing, free of loose particles and substances which impair adhesion such as oil, grease, paint or other contaminants.

The **requirements** of DIN 18035-7 must be met.

The **residual moisture** of the substrate must not exceed **4 %** (check with CM equipment), which corresponds to maximum 75 % relative humidity according to ASTM F 2170. If using the calcium chloride test, the maximum allowable vapour emissions is 4.0 lbs. as per ASTM F 1869.

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

## Pack size

CONIPUR 324 is supplied in 220 kg drums and in 1'050 kg containers.

## Colour

straw coloured

## Storage

Store in original closed packing, under dry conditions at a temperature range of 5 - 25 °C.

Do not expose the drums to direct sunlight.

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

## Safety precautions

CONIPUR 324 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 324 meets the requirements of the EC directive 2004/42/EC.