

# CONIPUR 208

## Two Component, Self Levelling, Soft PUR Coating for Base Layers of Full Pour Systems

### Product description

CONIPUR 208 is a solvent free, elastic, self-levelling, two component polyurethane coating.

### Fields of application

CONIPUR 208 is a self-levelling coating for base layers of full pour systems according IAAF specification.

Full PUR systems are used for athletic tracks and runways.

### Properties

CONIPUR 208 is of a very low hardness and exhibits a moisture resistance during the curing process.

The material shows an outstanding elasticity which allows the installation of solid PUR systems with a very high force reduction.

### Technical Data

<b>Mixing ratio</b>	in parts by weight		100 : 95
<b>Density</b>	component A, at 23 °C component B, at 23 °C mix, at 23 °C	g/cm <sup>3</sup> g/cm <sup>3</sup> g/cm <sup>3</sup>	approx. 0.62 approx. 1.08 approx. 0.81
<b>Viscosity</b>	component A, at 23 °C component B, at 23 °C mix, at 23 °C	mPas mPas mPas	approx. 26000 approx. 3500 approx. 8000
<b>Pot life</b>	at 23 °C	min	approx. 18
<b>Ready for foot traffic (broadcasted surface)</b>	at 23 °C and 50 % relative humidity	h	> 16
<b>Ready for removing excess granules</b>	at 23 °C and 50 % relative humidity	h	> 20
<b>Substrate and application temperature</b>	minimum maximum	°C °C	10 40
<b>Permissible relative humidity</b>	maximum	%	80
<b>Shore A hardness</b>	after 24 h, at 23 °C and 50 % relative humidity after 28 d		25 42
<b>Tensile strength</b>	DIN 53504	N/mm <sup>2</sup>	1.2
<b>Elongation at break</b>	DIN 53504	%	150
<b>Tear strength</b>	DIN 53515	N/mm	3.2
<b><i>Above figures are guide values and may not be used as a base for specifications!</i></b>			

### Application method

The A component of CONIPUR 208 is supplied in 20 kg containing small drums which have to be **homogenised before** application.

The **filler** swimming on top must be **mixed** with the liquid below using a slowly rotating mixer. The mixing process

takes at least **1 minute** and must be performed until the material is homogeneous.

The optimal **temperature** of the material before and during application is between **15** and **25 °C**.

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

**19 kg** of the CONIPUR 208 **B** component (delivered in drums) are **weighed** out in a drum. Part B is then **poured** into the small drum with homogenised component **A** and thoroughly mixed using a slowly rotating mixer at about 300 rev/min ensuring that the mixer reaches the sides and bottom of the drum.

The **mixing** process takes **at least two minutes** and must be performed until the blend is **homogeneous** and streak free.

The mixed material is then **tipped** into a 2<sup>nd</sup> **clean** drum and mixed for a further minute. For any mixer we recommend you follow the manufacturer's instructions but it is essential to obtain a homogeneous mix.

After the mixing process, CONIPUR 208 is applied to the pre-treated substrate using a squeegee, scraper or a notched trowel. The tooth size must be selected according to the thickness of the layer required.

**Within 5-10 minutes**, the **fresh** surface has to be **covered** with **excess** EPDM or recycled **granules** (appropriate grain size usually Ø 1-3.5 mm).

In order to **avoid** possible **bald spots**, it might be necessary to broadcast additional granules after some minutes.

**Excess** and loose **granules** are **removed** after curing and can be re-used.

Pot life and curing time of CONIPUR 208 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. Direct sunlight shortens the time frames considerably.

CONIPUR 208 exhibits a certain insensitivity against moisture during curing time. Nevertheless, as with all systems based on isocyanate, water could cause foaming on the surface of the coating.

In order to prevent foaming after application, the material must be protected from contact with water for a few hours.

In case of (expected) **rain**, CONIPUR 208 must not be applied.

### **Cleaning agent**

Re-usable tools must be cleaned carefully with CLEANER 40 or other suitable solvent (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 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.

Under these conditions CONIPUR 208 can be applied directly on **asphalt** without any primer.

On **concrete**, it is necessary to apply primer CONIPUR 74 (see product data sheet). The bond strength of the substrate must be at least 1.0 N/mm<sup>2</sup>.

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

**Fresh** surfaces consisting of broadcast CONIPUR 208 can re-coated without the use of a primer if substrate is dry and clean.

In case the re-coating **interval** of CONIPUR 208 is **exceeded**, the application of **primer** CONIPUR 72 with a max. consumption of 0.08 kg/m<sup>2</sup> prior to the coating is mandatory.

### **Pack size**

CONIPUR 208 is supplied in small drums of 20 kg for component A and in 220 kg drums for component B.

### **Colour**

oxide red

### **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 208 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 208 meets the requirements of the EC directive 2004/42/EC.