

CONIPUR 210

Two Component, Self-Levelling PUR Coating for Sports Surfacing Systems with Granular Finish

Product description

CONIPUR 210 is a solvent free, elastic, self-levelling, two component polyurethane coating.

CONIPUR 210 can also be used for the re-topping of old PUR surfaces.

Fields of application

CONIPUR 210 is used as a self-levelling coating for the installation of sports surfacing systems, for example, full pour or sandwich systems, for athletic tracks, runways, multipurpose sports facilities, school playgrounds and ball game courts.

Properties

CONIPUR 210 exhibits a long pot life, excellent curing properties and a moisture resistance during the curing process.

The material shows an outstanding durability, wear resistance, strength and elasticity once fully cured.

The material is easy to apply in most of the world's climate zones.

Technical Data

Mixing ratio	in parts by weight		100 : 65
Density	component A, at 23 °C	g/cm ³	approx. 1.42
	component B, at 23 °C	g/cm ³	approx. 1.08
	mix, at 23 °C	g/cm ³	approx. 1.26
Viscosity	component A, at 23 °C	mPas	approx. 5000
	component B, at 23 °C	mPas	approx. 3500
	mix, at 23 °C	mPas	approx. 3500
Pot life	at 12 °C	min	approx. 41
	at 23 °C	min	approx. 33
	at 30 °C	min	approx. 28
Ready for foot traffic (broadcast surface)	at 23 °C and 50 % rel. humidity	h	> 16
Ready for removing excess granules	at 23 °C and 50 % rel. humidity	h	> 20
Recoating interval (only for surfaces not broadcasted with EPDM)	at 30 °C and 75 % rel. humidity	h, max.	36
	at 23 °C and 50 % rel. humidity	h, max.	48
Substrate and application temperature	minimum	°C	10
	maximum	°C	40
Permissible relative humidity	maximum	%	90
Shore A hardness	after 24 h, at 23 °C and 50 % relative humidity		35
	after 28 d		50-55
Tensile strength	DIN 53504	N/mm ²	2.0
Elongation at break	DIN 53504	%	150
Tear strength	DIN 53515	N/mm	3.7
<i>Above figures are guide values and must not be used as a base for specifications!</i>			

Application method

The **A** component of CONIPUR 210 has to be **homogenised before** application. This can be achieved by **rolling** the drums or by thoroughly stirring in tote using a forced stirrer.

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.

Components A and B of CONIPUR 210 are **weighed** out in separate drums in the ratio of 100:65 by weight respectively.

Part A and part B are poured into a mixing container and thoroughly mixed using a slowly rotating mixer at about 300 rev/min ensuring that the mixer reaches the sides and bottom of the mixing vessel.

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 2nd **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, CONIPUR 210 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 \varnothing 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.

Working and curing time of CONIPUR 210 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 210 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 210 must not be applied.

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

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 210 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/mm².

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 smooth or broadcast CONIPUR 210, CONIPUR 2341 or fresh pore-sealed surfaces with CONIPUR 203 or CONIPUR 222 can be re-coated **without** the use of a **primer** if substrate is dry and clean.

In case of coatings or pore sealers **older** than **24 - 48 hours** (please refer to the technical data sheets of the corresponding product), the application of **primer** CONIPUR 72 with a max. coverage rate of 0.08 kg/m², before recoating, is **mandatory**. If necessary, the surface must be ground.

When coating an old PUR surface, **adhesion tests** must be carried out first. It may be necessary to grind the surface and remove the dust.

In all cases the surface must be thoroughly **cleaned** by high-pressure water and then left to thoroughly dry.

Always apply CONIPUR 72 (max. coverage is 0.08 kg/m²) as a primer before the application of CONIPUR 210.

Pack size

CONIPUR 210 is supplied in 260 kg drums or 1.354 kg tote (containers) for component A and 220 kg drums or 880 kg tote (containers) for component B.

Colour

Standard colours: oxide red and oxide green.
Other colours on request.

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 210 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 210 meets the requirements of the EC directive 2004/42/EC.