CONIPUR 222

Two Component, Solvent Free PUR Pore Sealer

Product description
CONIPUR 222 is a solvent free, thixotropic, two component PUR pore sealer.

Fields of application
CONIPUR 222 is used as a pore sealer for rubber granule mats for impermeable sports surfaces such as athletic tracks and multipurpose fields.

Properties
Contrary to other pore sealers, CONIPUR 222 is neither thixotropic in its A component nor in its B component.

The required structural viscosity for application can only occur if both components are mixed in the supplied proportions.

CONIPUR 222 is easy to apply and exhibits a moisture resistance during curing as well as a good curing behaviour even at low temperatures.

Technical Data

mixing ratio	in parts by weight		100:27
density	component A, at 23 °C	g/cm³	approx. 1.67
	component B, at 23 °C	g/cm³	approx. 1.18
	mix, at 23 °C	g/cm³	approx. 1.52
viscosity	component A, at 23 °C	mPas	approx. 12000
	component B, at 23 °C	mPas	approx. 2000
	mix, at 23 °C	mPas	thixotropic
pot life	at 12 °C	min	approx. 70
	at 23 °C	min	approx. 52
	at 30 °C	min	approx. 44
ready for foot traffic	at 23 °C and 50% relative humidity	h	approx. 7
recoating interval	at 30°und 75% relative humidity	h	24
	at 23°und 40% relative humidity	h	36
substrate and application temperature	minimum	°C	10
	maximum	°C	50
permissible relative humidity	maximum	%	95
shore A hardness	after 24 h at 23 °C and 50% relative humidity		60
	after 28 d		83
tensile strength	DIN 53504	N/mm²	4.3
elongation at break	DIN 53504	%	90
tear strength	DIN 53515	N/mm	8.6

Above figures are guide values and must not be used as a base for specifications!

Application method

CONIPUR 222 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 subbase must be at least 3 °C above the current dew point temperature.

Pour component B into component A and ensure that pail containing part B is emptied completely.

To achieve a homogenous mix, thoroughly mix with a slow rotating mixing device at about 300 rev/min. Ensure that the mixing device reaches the side and bottom areas of the mixing vessel.

The mixing process takes at least 2 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 1 additional minute.

When thoroughly mixed, the material is applied to the rubber granule mat with a flat rubber or metal squeegee.

In order to achieve the coverage rate indicated, pressure must be applied to the squeegee to tightly scrape off the material.

The material consumption depends on the surface structure of the rubber granule mats (grain size, compaction, evenness of the surface) as well as substrate, material and ambient temperature.

The substrate temperature must not exceed 50 °C as this would liquefy the material and increase the consumption.

At higher temperatures CONIPUR 222 can be filled with up to 10 % EPDM powder to lower the consumption.

The pot life and curing time of CONIPUR 222 are influenced by the ambient material and substrate temperature. At low temperatures, chemical reactions are generally slowed down; this lengthens the pot life, re-coating interval and open time. At the same time, the viscosity increases which leads to a higher consumption. High temperature and humidity accelerate chemical reactions so the contrary is true. Direct sunlight shortens the time frames considerably.

CONIPUR 203 exhibits 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 222 must not be applied.

The surface of the CONIPUR 222 must be clean and dry before application of further wear coats.

Important notice

Fresh pore sealed surfaces with CONIPUR 222 can be recoated without the use of a primer if the substrate is dry and clean.

In case the recoating interval of CONIPUR 222 is exceeded, the application of primer CONIPUR 72 with a maximal consumption of 0.08 kg/m² prior to the coating application is mandatory.

Apply only as much CONIPUR 222 as can be recoated during the maximum re-coating time.

After rainfall, priming is always necessary.

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 222 is applied directly on cured and dry rubber granule mats free of loose and brittle particles as well as substances which impair adhesion such as oil, fat, rubber skid marks, dust or other contaminants.

Pack size

CONIPUR 222 is supplied in 50 kg working packs. Components A and B are supplied in the correct proportion and delivered separately.

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 222 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 222 meets the requirements of the EC directive 2004/42/EC.

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