

# CONIFLOOR 210

**Two part PUR resin adhesive, solvent free, low emission, thixotropic, to glue pre-fabricated rubber and foam granule mats**

## Product description

CONIFLOOR 210 is a solvent free, low emission, thixotropic, two-component PUR adhesive.

## Fields of application

CONIFLOOR 210 is an adhesive for pre-fabricated rubber granule mats on e.g. PUR substrates, asphalt or concrete.

CONIFLOOR 210 can also be used as an adhesive for linoleum on e.g. PUR coatings.

## Properties

CONIFLOOR 210 is thixotropic in its' A component, has got a long pot life and is easy to apply and is used in the systems

- CONIFLOOR LPC+
- CONIFLOOR UPD+
- CONIFLOOR IPS+.

in addition, for other applications.

## Technical Data

<b>Mixing ratio</b>	in parts by weight		5 : 1
<b>Density</b>	component A, at 23 °C	g/cm <sup>3</sup>	1.65
	component B, at 23 °C	g/cm <sup>3</sup>	1.23
	mix, at 23 °C	g/cm <sup>3</sup>	1.56
<b>Viscosity</b>	component A, at 23 °C	mPas	thixotropic
	component B, at 23 °C	mPas	200
	mix, at 23 °C	mPas	thixotropic
<b>Pot life</b>	at 12 °C	min	85
	at 23 °C	min	65
	at 30 °C	min	50
<b>Substrate and application temperature</b>	minimum	°C	10
	maximum	°C	30
<b>Permissible relative humidity</b>	maximum	%	75
<b>Shore A hardness</b>	after 24 h, at 23 °C and 50 % relative humidity		88
<b>Shore D hardness</b>	after 28 d		55
<b>Tensile strength</b>	DIN 53504	N/mm <sup>2</sup>	13
<b>Elongation at break</b>	DIN 53504	%	53
<b>Tear strength</b>	DIN 53515	N/mm <sup>2</sup>	39
<i>Above figures are guide values and should not be used as a base for specifications!</i>			

## Consumption

The consumption rate of CONIFLOOR is approximately 0.8-1.0 kg/m<sup>2</sup> depending on the conditions on site, the properties of the sub-base.

This value strongly depends on the roughness and porosity of the sub-base and can only be seen as **guiding** value.

## Application method

CONIFLOOR 210 is supplied in the correct proportions of component A (resin) and component B (hardener). Pour component B into component A and ensure that the pail containing component B is emptied completely.

### Mixing

To achieve a homogenous consistency, both components must be thoroughly mixed 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 ought to take **at least 3 minutes** and should be performed until the blend is **homogenous** and streak free.

Under **no** circumstances, the material must be **applied** out of the **original pack**. Then **pour** the mix into another **clean pail** and mix it again for 1 additional minute.

The **temperature** of both components should be between 15 - 25 °C.

After stirring, the material is applied onto the pre-treated substrate with a notched trowel.

The consumption of CONIFLOOR 110 is not only defined by the notch size of the trowel, but also on the structure of the sub-base as well as on the temperatures of the sub-base, material and surroundings.

### Gluing of pre-fabricated granule mats

CONIFLOOR 210 has to be applied to the substrate in the full width of the rubber or foam granule mat or linoleum. The mats have to be cut according to the dimension of the surface and be rolled onto the freshly applied adhesive.

**Weights** have to be put on the end of the mat and at suitable intervals along the length.

After about 30-60 minutes, the surface has to be **rolled** with a 50 kg roller in order to prevent the formation of blisters and areas of insufficient adhesion.

### Temperatures

The working life and curing time of CONIFLOOR 210 is influenced by the ambient, material and substrate temperature. At low temperatures, the chemical reactions are generally slowed down; this lengthens the pot life, re-coating interval and open time. As the same time, the viscosity increases which leads to a higher consumption. High temperature and humidity accelerate chemical reactions so that the periods mentioned above are shortened accordingly. Direct sunshine shortens the periods considerably.

To fully cure the material, the substrate and working temperature must not fall below the minimum.

After application, the material should be protected from direct contact with water for approx. 20 hours (at 15°C). Within this period, contact with water can cause bubbles or foaming on the surface.

**Outdoors**, the application of CONIFLOOR 210 should be stopped immediately in case of (expected) rain.

### Cleaning agent

Re-usable tools should 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 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.

A pre-treatment of the substrate by grit or shot blasting, high-pressure water jetting, grinding or scabbing including the necessary post-treatment is only necessary, when the layer is soiled or the re-coating intervals have been exceeded. The bond strength of the substrate must be at least 1.5 N/mm<sup>2</sup>.

The **moisture** level 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.

Under above conditions, CONIFLOOR 210 can be applied onto **asphalt** without using a primer.

On **concrete**, it is necessary to apply CONIFLOOR 110 (see product data sheet) before applying in situ rubber granule mats.

### Pack size

CONIFLOOR 210 is supplied in 25 kg working packs. Components A and B are supplied in the correct proportions and delivered separately.

### Colour

Brown-beige

### Storage

Store in original closed pails under dry conditions at a temperature range of 15 - 25 °C.  
Do not expose the drums to direct sunlight.

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

### Safety precautions

CONIFLOOR 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.

**VOC contents**

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



**CE-Label:**

See Declaration of Performance.

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