

CONIPAVE 610

Moisture Curing Single Component PUR Binder for Quartz Minerals

Product description

CONIPAVE 610 is a moisture curing, solvent free, unpigmented PUR binder of medium viscosity based on MDI.

Fields of application

CONIPAVE 610 is used as a moisture curing binder for quartz minerals (round grain) for the in-situ building of stone carpets.

These can be used as water permeable walking and cycling trails.

Properties

Due to the medium viscosity, CONIPAVE 610 is easily mixed with the quartz minerals and there is hardly any run-off into the sub-base.

The yellowing which occurs when CONIPAVE 610 is exposed to UV light does not affect its mechanical properties. It is most evident with colours such as blue (turning to green), grey may become yellow beige.

These colour changes occur within the first hours or days after application, depending on the weather conditions. After a while the original colour appears more and more due to the abrasion of the thin layer of CONIPAVE 610 on top of the minerals.

Technical data

Density	DIN 53217, at 23 °C	g/cm ³	1.10
Viscosity	at 23 °C	mPas	3000
NCO content	DIN 53185	%	14
Ready for foot traffic	at 23 °C and 50% rel. humidity	h	24
Ready for vehicular traffic	at 23 °C and 50% rel. humidity	h	48
Substrate and application temperature	minimum	°C	8
	maximum	°C	30
Permissible relative humidity	minimum	%	40
	maximum	%	75

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

Application method

During application the [temperature](#) of CONIPAVE 610 should be between 15 and 25 °C.

For the installation of a stone carpet [mix](#), depending on the grain size, between 5 and 12 parts by weight of CONIPAVE 610 with 100 parts by weight of the quartz minerals (round grain) using a forced mixer rotating at approximately 300 rev/min, for [3-5 minutes](#).

The material is applied by [hand](#) (using a trowel). In order to achieve good surface strength, the stone carpet must be [compacted](#) thoroughly. If necessary roll the surface.

Particular [attention](#) should be paid to the construction [joints](#), which, if possible, should be made before the material has significantly cured.

To receive a [smooth surface](#) we recommend our environmental friendly SMOOTHING AGENT.

In case it is necessary to install next to a cured surface or re-work [cured joints](#) these should be primed with CONIPROOF 165 and well trowelled.

The quartz mineral should be of [round grains](#), the largest grain should not be larger than [8mm](#) and have a sufficient share smaller grains.

The quartz [minerals](#) 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 carpet.

The working life and curing time of CONIPAVE 610 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 to **carefully mist spray** the stone carpet with water to avoid unacceptable curing times, which might impair the quality of the stone carpet.

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.

Cleaning agent

Re-usable tools should 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.

On **concrete** it is necessary to apply our primer CONIPUR 74 (see product data sheet) before installing the surface.

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 installation on **crushed concrete** is possible. In such cases the layer of crushed concrete needs to be at least **100 mm thick** and the **density** needs to be at **96%**. The **moisture** level must not exceed **4 %**.

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

Pack size

CONIPAVE 610 is supplied in 220 kg drums.

Colour

colourless to brownish

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

CONIPAVE 610 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.

CONIPAVE 610 meets the requirements of the EC directive 2004/42/EC.