



PANADUR

coating your ideas



Technical Data Sheet
PANADUR 1K Primer-P

Version: 04.05.2018



PANADUR 1K Primer-P

PANADUR 1K Primer-P is a moisture hardening, single-component reactive primer. The product is solvent-based, without fillers, unpigmented and has a low viscosity. The product is distinguished by its rapid curing and fast recoatability.

Product Benefits

- Rapid curing
- Long recoating interval
- Low viscosity
- Easy to use
- Low consumption

Range of Applications

PANADUR 1K Primer-P is a reactive primer for PANADUR polyurea products. It is also suitable as an adhesion promoter between polyurea coatings during later recoating or repair and as a primer for wooden surfaces.

Technical Data

Raw material base	One-component polyurethane, moisture hardening, solvent-based
Density (DIN 52317; 20 °C)	Approx. 1.0 g/cm ³
Viscosity (DIN 53019, measuring system 13, at 20 °C)	Approx. 100 mPa·s
Volume solids	Approx. 60 % by volume
Permissible surface temperature for primer application	5 to 30 °C (to avoid condensation, keep as close to the ambient temperature as possible and at least 3 °C higher than the dew point, note the dew point chart; protect against condensation)
Maximum permissible relative humidity range	40 - 90 %
Permissible material temperature during processing	5 to 30 °C
Consumption	50 to max. 100 g/m ² (depends on the properties of the substrate)
Shelf life	6 months (in the original container at 15 to 25 °C; avoid exposure to direct sunlight and lower temperatures; store tightly sealed and upright)

Curing Times

Time frame for recoating	At 23 °C, 50 % rel. humidity: 1 to 24 h
	At 10 °C, 60 % rel. humidity: 2 to 36 h

These guidance values are applicable at the given conditions; times may vary at different temperatures.



Physico-Chemical Properties

Color	Colorless
VOC content (EG 2004/42/EC Annex II cat. A/i) ready to use	< 500 g/l (limit value: 600 g/l, date 2010)

The given values are provided as guidelines and must not be taken as a specification.

Processing Guidelines

General information:

Before processing starts, all provided documents must be entirely read and understood.

Preliminary tests with original materials under comparable conditions are necessary to ensure material compatibility and adhesion.

It is strongly recommended to keep detailed process records for every process step and during the entire duration of the construction site.

It is not allowed to dilute the material with any type of additives, e.g. solvents, diluents or plasticizers.

The application is to be performed by a specialized company. If the scope is a remediation project, the application must be supervised by a qualified expert.

Uses which are not specifically mentioned in this technical data sheet may only be performed after consultation and written confirmation by PANADUR GmbH.

Surface preparation:

A careful preparation of the surface is absolutely essential for a durable coating.

The following applies in general: See German VOB, Part C, DIN 18363, Section 3.

The substrate (concrete) must be stable and must have a minimum tensile adhesive strength of 1.5 N/mm². The substrate surface must be dry, clean, flat and without ridges, defects, loose material or cement slurry. It must also be free of formwork oils and other materials or substances that may separate or impede adhesion (oil, grease, silicone, release agent residue or other impurities). The residual moisture of concrete must be < 4 % (CM-Methods). Moisture penetration thereafter is not permitted and should be avoided. Verified compliance with this requirement (e.g. in construction records) must be documented.

In case of an old coating it has to be cleaned, abraded and vacuum-cleaned. To remove the dust entirely, wipe with PANADUR Silicone remover and let dry thoroughly.

Wooden surfaces must not exceed a residual moisture value of 5 % CM. Abrade the surface and remove dust by vacuum cleaning. Wipe with PANADUR Silicone remover prior to application.

Processing:

The material containers should only be opened right before use.

Fill the necessary amount of PANADUR 1K Primer-P into an appropriate, clean container and close the storage container immediately.

Then immediately apply a thin film of PANADUR 1K Primer-P using a brush, roller or spray mechanism to the appropriately pretreated substrate. Subsequent smoothing may be necessary in order to attain an even and thin coat without ponding. Exceeding the maximum consumption can lead to foaming.

Take care that all of the solvent has completely evaporated before applying a subsequent coat. Take care to remain above the dew point (+3 °C) before, during and after application of the product (for at least 6 hours after application) and protect from contact with water / moisture.



Tool cleaning:

The used tools / machinery must be thoroughly cleaned immediately after use, and, if necessary, also occasionally, depending on the system type. A proper cleaning agent must be chosen based and tested according to the used system. Please observe the instructions of the equipment manufacturer as well.

Note: If the curing process has started, it is no longer possible to clean any used tools.

Supplemental Products

- PANADUR Silicone remover
- PANADUR tool cleaner

Storage

Protect from heat ($T > 30\text{ °C}$), frost ($T < 5\text{ °C}$) and humidity. Immediately close opened container after withdrawal of material and use promptly. Do not expose uncured components to direct sunlight. Store and transport containers upright and tightly closed.

Further information may be found in the corresponding safety data sheets.

Protective Measures

PANADUR 1K Primer-P contains solvent, which requires adequate ventilation. In cases of inadequate ventilation, wear a fresh air hood. Avoid inhalation of the fumes as well as skin contact. During the processing of the product, wear suitable protective clothing, protective gloves and protective goggles.

In case of skin contact, wash immediately with plenty of soap and water. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

When using, do not eat, smoke or use an open flame.

In general, the hazard warnings and safety advice should be observed and complied with as provided on the container, in the safety data sheet and in the relevant provisions from professional associations.

GISCODE: PU 50

Environmental Information

Do not allow the material to enter water, sewers or groundwater.

The instructions and safety advice on the containers should be observed during processing. Further details may be found in the corresponding safety data sheet.

Important:

When handling our products, the essential physical, safety-related, toxicological and ecological data are to be taken from the appropriate material safety data sheets. Relevant provisions, such as the ordinance of hazardous substances, are to be observed.

Disclaimer:

The information above, in particular the suggestions for processing and use of our products, is based on our knowledge and experience under normal circumstances, provided that the products have been properly stored and used. Due to differences in materials and surfaces as well as diverging operating conditions, it is not possible to guarantee a particular result or to be held liable, regardless of the legal relationship, based on these references or on a verbal consultation unless we are found guilty of intention or gross negligence. In such a case, the user must prove that he/she transmitted all information in writing in a timely and accurate manner to PANADUR GmbH which was necessary for PANADUR GmbH to make an appropriate and promising assessment. The user must evaluate the suitability of a product for its intended purpose. Product specifications are subject to change. Proprietary rights of third parties must be observed. Furthermore, our respective current terms and conditions of sale and delivery apply. Only the latest version of each technical data sheet and the corresponding safety data sheets apply which are to be requested from us.