

Product data sheet

WERIPUR® 181

2C PU gloss seal

Characteristics:	WERIPUR® 181 is a water-based 2C PU gloss sealing <ul style="list-style-type: none"> • light stable • low emissions • scratch-resistant
Areas of application:	WERIPUR® 181 is used as <ul style="list-style-type: none"> • a primer under solvent-free coating systems • a binding agent for scratch/levelling fillers • mortar resin • a casting resin for all kinds of anchoring
Products to be highlighted:	<ul style="list-style-type: none"> • scratch-resistant • low odor • excellent adhesion • easy to process

When cured, WERIPUR® 181 is resistant to water, sea water and wastewater as well as numerous alkalis, diluted acids, salt solutions, mineral oils, lubricants and fuels as well as many solvents.

When exposed to UV, a certain color change must be expected - due to the binder. The technical properties of **WERIPUR® 181** are not affected by this.

Technical data:	
Base:	2-comp. Water-based polyurethane
Color:	milky white, dries clear
Mixing ratio:	5 : 1 parts by weight
Density:	approx. 1,07 g/cm ³
Viscosity:	approx. 50 mPa · s
Minimum hardening temperature:	+ 10° C (slow hardening)
Solids content:	approx. 40%

Cleaning:

Clean tools carefully with water immediately after use.

Delivery form:

WERIPOX® 181 is available in containers of 10 kg. Other container sizes available on request. Component A and component B are present in a coordinated mixing ratio.

Storage:

12 months, in the originally sealed container and when stored in a dry place between 5-30°C.

Protect from frost! The product can be irreversibly damaged!

Product data sheet

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2C PU gloss seal

Subsurface texture:

Cement-bound substrates must be firm, dry, fine-grip, sufficiently tensile and compressive, free of layers of cement paste, loose and crumbly parts and separating substances such as oil, grease, rubber abrasion, paint residues or similar. A surface pretreatment is usually required, such as granulate blasting, shot blasting, high-pressure water jets, milling or grinding. After the surface has been pre-treated, the tear-off strength of the surface must be at least 1.5 N/mm². The concrete moisture on the surface must not be more than 4%. The temperature of the substrate must be at least 3 °C above the prevailing dew point temperature.

The prepared surfaces must be primed thoroughly and without pores. To ensure that there are no pores, a scratch coat may be necessary. If necessary, specific advice should be sought.

Depending on the respective surface, the following minimum requirements must also be met:	<ul style="list-style-type: none"> • Concrete quality: at least C 20/25 • Screed quality: at least EN 13813 CT-C25-F4 • Age: at least 28 days • Adhesive tensile strength: 1.5 N/mm² (smallest value: 1.0 N/mm²) • Residual moisture: < 4% cement-bound substrates (according to the CM method); 0.5% anhydride screeds • Must be protected against rear moisture exposure
Notes on residual moisture:	Residual moisture of the cementitious substrates: dry or moist (according to Def. RiLi SIB)* *“Guidelines for the protection and repair of concrete components”, Part 2, Section 1.2.5 “Concrete moisture”.

Processing:

Component A (resin) and component B (hardener) are supplied in a coordinated mixing ratio. The B component is added to the A component. It is important to ensure that the hardener runs completely out of its container. The two components must be mixed using a suitable mixer at approx. 300 rpm. (e.g. drill with agitator). It is important to also stir from the sides and bottom so that the hardener is evenly distributed. Stir until the mixture is homogeneous (free of streaks); Mixing time approx. 2 minutes. The material temperature should be approx. +15° C during the mixing process. Do not process the mixed material from the delivery container! The mixture should be repotted into a clean container and stirred carefully again. After a maturation time of approx. 15 minutes, stir the mixture again and then process.

Application with a short-medium roller. The surface should be rolled crosswise. Don't leave any puddles!

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Relative humidity:	min. 40% - max. 90%
Dewpoint:	During processing and curing, the substrate temperature must be at least +3°C above the dew point temperature.
Material consumption:	80 – 120 g/m ²
Processing times (at 50% relative humidity):	15 – 20 minutes (30 °C) 25 – 35 minutes (20 °C) 50 – 60 minutes (10 °C)
Rework times (at 50% relative LF):	at least 1 – 2 hours, max. 12 hours at 30 °C at least 3 – 4, max. 24 hours at 20 °C at least 8 – 12, max. 48 hours at 10 °C
Hardening (full mechanical load capacity at 50% relative LF):	3 days (30 °C) 7 days (20 °C) 10 days (10 °C)

Physiological behavior and protective measures:

WERIPUR® 181 is physiologically harmless after curing.

Please note: The product is only approved for commercial users. Information sheet M044: Production and processing of polyurethanes/isocyanates. (Ed.: Professional Association of the Chemical Industry). Please also note the currently valid safety data sheets.

Important processing instructions:

When processing reaction plastics, in addition to the ambient temperature, the temperature of the substrate is particularly important. At low temperatures, chemical reactions are generally delayed; This also extends the processing, reworkability, walkability and curing times. At the same time, consumption increases due to the higher viscosity. At high temperatures, the chemical reactions are accelerated, so that the above-mentioned times are shortened accordingly. For the reaction plastic to harden completely, the average temperature of the substrate must be above the minimum temperature.

When used outdoors, it must be ensured that the material is protected from moisture for a sufficient period of time after application. If the surface is exposed to moisture too early, a white discoloration and/or stickiness can occur, which can significantly impair the connection to the subsequent coating and therefore may have to be removed, for example by sandblasting. The material underneath this layer hardens perfectly.

Applications that are not clearly mentioned in this technical data sheet may only be carried out after consultation and written confirmation with or by WEBER Bauchemie GmbH's application technology department.

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Waste code:

Liquid product residues: EAK 08 01 11 paint and varnish waste that contains organic solvents or other dangerous substances.

Hardened product residues: EAK 17 02 03 plastic.

Please note the valid EC safety data sheet.

VOC Directive 2004/42/EC:

Category IIA/j type wb < 140 g/l VOC

GISCODE: PU 40

Basis of the technical information:

The data and processing instructions given are based on laboratory tests. In practice, the measured values may differ due to influences outside our sphere of influence.

Legal basis:

The information provided as well as the recommendations for the processing and use of our products are based on our knowledge and experience in normal cases, with appropriate storage and use. Due to different materials, substrates and working conditions that deviate from the norm, a guarantee of a work result or liability, regardless of the legal relationship, cannot be established either from these instructions and comments or from oral advice, unless there is intent or gross negligence in this regard. We are accused of negligence. The user must prove that he has submitted in writing all the knowledge required for an appropriate and promising assessment in a timely and complete manner. The user must check the products for their suitability for the intended purpose. Furthermore, our terms and conditions apply. You can get these at www.weber-bauchemie.de. The current technical data sheet applies.

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