Product data sheet

WERIPOX® 120

Epoxy resin roll coating

Characteristics:	**WERIPOX® 120** is a solvent-free, colored prefilled, 2-comp. Epoxy resin • shiny • can withstand high mechanical stress • can be filled with sand • highly abrasion resistant • going well

Areas of application:	**WERIPOX® 120** is used as/for • layer thicknesses between 0.3-1.0 mm • smooth coatings for commercial use • head seal for gritting coverings • base layer in scattering systems with colored quartz scattering • functional wall coating with the addition of adjusting agents

Products to be highlighted:	• **mechanically and chemically resilient** • **tough hard** • **decontaminable** • **economical** • **easy to process**

When cured, WERIPOX® 120 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 **WERIPOX® 120** are not affected by this.

Technical data:	
Base:	2-comp. Epoxy resin
Color:	approx. RAL colors
Mixing ratio:	4 : 1 parts by weight
Density:	approx. 1,40 g/cm³
Viscosity:	1200 - 1500 mPa s at 23°C
Solid body:	100%
Minimum hardening temperature:	+ 10° C (slow hardening)
Compressive strength:	approx. 65,0 N/mm²
Adhesive tensile strength:	> B 1,5

Cleaning:
Clean tools carefully with EP thinner immediately after use.

Delivery form:
WERIPOX® 120 is available in containers of 30 kg and 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 above +10 °C.

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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:	• 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% (according to the CM method) • 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. 3 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.

Processing/tools:
Surface toothed squeegee, short or medium-pile paint roller, smoothing trowel, rubber lip squeegee

Annotation: For laying tools, such as squeegee or roller, the appropriate triangular strips must be selected according to the material consistency and the layer thickness to be applied.

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Relative humidity:	max. 80%
Dewpoint:	During processing and curing, the substrate temperature must be at least +3°C above the dew point temperature.
Material consumption:	0.5-1.0 kg/m² for smooth surfaces 0.7-1.0 kg/m² as a top seal for scattered areas
Processing times (at 65% relative humidity):	25 – 35 minutes (30 °C) 40 – 45 minutes (20 °C) 50 – 65 minutes (10 °C)
Rework times (at 65% relative LF):	at least 6 – 8 hours, max. 48 hours at 30 °C at least 12 – 16, max. 72 hours at 20 °C at least 24 – 36, max. 96 hours at 10 °C
Hardening (full mechanical load capacity at 65% relative LF):	3 days (30 °C) 7 days (20 °C) 10 days (10 °C)

Physiological behavior and protective measures:
WERIPOX® 120 is physiologically harmless after curing. Please note: Practical guidelines for dealing with epoxy resins published by the professional association for the construction industry www.bgbau.de and www.gisbau.de.

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.

Labeling VOC content:
(EU Regulation 2004/42) Limit value 140 g/l (2010,II,j/wb):
Product contains < 140 g/l VOC when processed.

GISCODE: RE 30

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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