

1 General data

Product description and application

RINOLCRETE PU-P250 is a colourless ready-to-use 3-components primer and scratch coat made of high-quality polyurethane resin and mineral components. RINOLCRETE PU-P250 is applied to prepared concrete substrates prior to coating with RINOLCRETE industrial flooring. After mixing all components, RINOLCRETE PU-P250 shows good penetration into the substrate due to the low viscosity. It reduces the porosity of the prepared concrete, thus minimising the incidence of displaced air from the concrete causing defects in the surface of the floor.

2 Installation instructions

Substrate preparation

The substrate must have sufficient load-bearing capacity. We recommend a minimum strength of 25 N/mm², which corresponds to a concrete C25/30 or screed strength class ZE, ME, AE30.

Basically, it must be checked whether the substrate is open-pored, porous or similar, as in these cases 2 or more work steps are usually required to obtain an optimal pore seal. In principle, pore sealing must be ensured to avoid bubble formation in the subsequent layers. In individual cases, a test area must be executed. This also applies to highly absorbent and/or porous substrates.

The substrate should be prepared by vacuum shot-blasting, milling or accurate diamond grinding. Afterwards, the surface is thoroughly swept and vacuumed.

The substrate must have an adhesive tensile strength of at least 1.5 N/mm². In addition, it must be free of oily, greasy or release agent-containing impurities, loose parts, etc. Cracks and cavities must be repaired properly beforehand. The residual moisture of the substrate must be < 8 %. (measured according to the CM measuring method). It must also be ensured that there is no rising/pressing moisture.

Make sure that no silicone-containing or other reaction-disturbing substances come into contact with RINOLCRETE PU-P250 before and during the curing phase.

Processing

Before application, the material must be acclimatised at least to ambient temperature (room and floor temperature). The ideal temperature lies in the range 16-22°C; this is also the preferred temperature range for mixing, laying and curing. The product is supplied in pre-dosed multi-component packaging. Only complete containers may be mixed. Shake the resin RINOLCRETE Comp. A 2,7Kg pack and pour it completely into a clean container. Add the hardener RINOLCRETE Comp. B 2,7Kg pack and mix for approx. 30 seconds with an electric stirrer (worm shaft).

After gradual addition of the filler RINOLCRETE PU-P250 Comp. C, homogenise again for 1 - 2 minutes at 1500-2000 rpm. Make sure that the filler is properly wet with the liquid components and the mixture is homogeneous. Avoid air formation during stirring.



Product information		
1	Packaging size Component A (Resin) Component B (Hardener) Component C (Filler)	10,4 Kg 2,7 Kg 2,7 Kg 5,0 Kg
2	Colours	colourless
3	Shelf life / Storage	9 months at 5 - 30 °C, protect from freezing and direct sunlight, also during transport

Technical data		
liquid mixture (A+B+C)		
1	Density (20°C)	approx. 1,4 g/cm ³
2	Processing time (20°C)	approx. 10 minutes
3	Processing / material Room and ambient temperature	12 - 25°C (min. 3 °C above the dew point also during installation and curing)
4	Material consumption (depends on the substrate, among other things)	approx. 300 - 800 g/m ²
5	Walkability (20°C)	after approx. 12 hours
6	Next coating (20°C)	within 12-24 hrs.
7	Rel. Humidity	Between 40 - 80 % during the entire laying and curing phase

Technical data		
Cured material Mixture		
1	Adhesive strength (DIN ISO 4624)	> 1,5 N/mm ² (concrete failure)

RINOLCRETE PU-P250 is applied on the prepared substrate with a metal trowel or rubber squeegee and re-rolled with a short-pile roller, taking care to avoid ponding. After applying the primer, immediately broadcast with RINOL QS20 or RINOL QS30 quartz-sand (approx. 1 to 2 kg/m²) according to installation requirements.

Health and safety measures

For information on handling the product, please refer to the latest and valid material safety data sheet and the chemical industry guidelines on handling coating materials (M004/M023). Wear suitable protective clothing and goggles during application. Clean tools immediately after finishing work with

RINOLCRETE PU-P250

POLYURETHANE-CEMENT PRIMER

RINOL

RINOL DE-X10.

Skin contact with liquid resins can lead to health impairments and allergies. Once properly cured, the product is physiologically nonhazardous.

Note

The characteristic data are approximate values determined by us, which do not have the meaning of property assurances. No liability claims can therefore be derived from the product data sheet.

For possible layer build-ups and more detailed information on the installation of RINOLCRETE products, please refer to the RINOLCRETE Technical guide or contact our technical team.

Only the latest version of the technical data sheet is valid and replaces all older data sheets.

Important note

In addition to the ambient temperature, the substrate temperature is of decisive importance. Chemical reactions are generally delayed at low temperatures. At low temperatures, material working time and complete curing time of the coating is prolonged. Low temperatures increase material viscosity and therefore material consumption. At higher temperatures, chemical reactions are shortened, therefore material working time, recoating time and complete curing time of the coating are reduced.

Protect the coating during application, curing and for the life of the floor from moisture on the reverse side and moisture under pressure.

The application examples are based on our best knowledge and experience. We always recommend testing on site before installation.

Legal notice

Due to the different materials, substrates and deviating working conditions, no guarantee of a work result or liability for whatever reason and / or legal relationship can be assumed by RCR Flooring Products Italia S.r.l. or RCR Flooring Products GmbH. In all other respects, the respective latest general terms and conditions of RCR Flooring Products Italia S.r.l. or RCR Flooring Products GmbH shall apply, which can be requested from us or viewed and printed out at www.rinol.com up to date. We expressly reserve the right to make changes to the product specifications.

CE - marking

DIN EN 13813 "Screed material and floor screeds - Screed materials - Properties and requirements" (Jan.2003) specifies requirements for screed mortars used for indoor floor constructions.

Synthetic resin coatings and sealers are also covered by this standard. Products that comply with the above standard must be CE marked.

CE

RCR Flooring Products Italia S.r.l.
Via V. Chiarugi 76/U
45100 Rovigo - Italia

05¹

EN 13813

1119-CPR-0833

09

EN 1504-2

Synthetic resin screed/coating for interior use in buildings (structures according to technical data sheets)

Fire behaviour: Bfl-s1

Release of corrosive substances: SR

Water permeability: NPD²

Abrasion Resistance: NPD²

Adhesive tensile strength (bond): B > 2,0

Impact Resistance: NPD²

Impact sound insulation: NPD²

Sound absorption: NPD²

Chemical resistance: NPD²

-1) the last two digits of the year in which the CE marking was affixed.

-2) NPD = No Performance Determined; characteristic value not determined

CE marking: 1504-2

Flooring systems that are subject to mechanical stresses and whose products comply with DIN EN 1504-2 must also comply with the requirement DIN EN 13813.

DIN EN 1504-2 "Products and systems for the protection and repair of concrete structures- Part 2: "Surface protection systems for concrete" specifies the requirements for the surface protection methods" hydrophobic impregnation" impregnation and coating. If required, the corresponding leaflet can be requested.

EU Regulation 2004/42 (Decopaint Directive):

The maximum content of VOCs (product category IIA / j type sb) allowed in EU Regulation 2004/42 is 500g/l in the ready-to-use state (Limit 2010). The maximum content of RINOLCRETE PU-P250 in ready-to-use condition is <500g/l VOC.

GIS Code: PU 40

For further information on the Giscode, please contact Wingis online at <https://wingisonline.de>