



1 General data

Product description / Application

RINOL PU-C500 is a pigmented, ready-to-use, solvent-free 2-component coating compound made of high-quality polyurethane resin.

RINOL PU-C500 is used to produce tough, hard-wearing and seamless floor coatings that can withstand heavy foot traffic and light transport traffic. The flooring is easy to clean and has good resistance to fuels, lubricants and many chemicals.

Attention is expressly drawn to the tendency of PUR resins to yellow!

2 Laying instructions

Substrate preparation

The substrate must be clean and free of separating agents. It is essential to check whether the substrate is porous, porous or similar, as this can lead to the formation of bubbles or pores in the coating. This must be checked by the applicator and eliminated if necessary.

RINOL PU-C500 is applied on a PU levelling coat (RINOL PU-L300). The top coat RINOL PU-C500 must be applied no later than 24 hours after the previously applied layer. After 24 hours, the levelling layer must be well sanded and vacuumed before applying RINOL PU-C500.

If RINOL PU-C500 is applied to an epoxy resin primer or levelling coat, the entire surface must be sanded thoroughly (until "white crack") before applying RINOL PU-C500 and then vacuumed to ensure sufficient adhesion.

Care must be taken to ensure that no substances containing silicone or other substances that may interfere with the reaction come into contact with RINOL PU-C500 before and during the curing phase.

Application

The product is supplied in co-ordinated quantities in 2-component containers.

Before processing, the material must always be warmed to at least ambient temperature (room and floor temperature).

The A component must be stirred for approx. 2 - 3 minutes.

The B component is then completely emptied into the A component. Both components must be mixed homogeneously for at least 2 - 3 minutes using a suitable electric mixer. Avoid stirring in air. The mixture should be decanted and then stirred again briefly.

RINOL PU-C500 is poured in portions onto the surface to be coated and applied over the entire surface using a notched trowel (notched trowel no. 25, layer thickness control). The still liquid coating must be deaerated with a spiked roller. The applicator wears spiked shoes to be able to walk on the liquid coating.

Non-slip surfaces are obtained by scattering hard materials (e.g. corundum).

Reworking

When reworking up to 24 hours after installation, the top layer does not need to be sanded separately. Subsequent reworking is only possible after careful sanding and subsequent vacuuming of the sanding dust, as otherwise adhesion problems may occur.

Technical data		
Liquid mixture (A+B)		
1	Container size (2-component container)	25 kg container
2	Colours	RINOL colour chart
3	Shelf life / storage	6 months at 5 - 20°C, in any case (also during transport) frost-free, protect from direct sunlight

Technical data		
Liquid mixture (A+B)		
1	Density (20°C)	approx. 1.35 g/cm ³
2	Working time (23°C)	approx. 25 - 30 minutes
3	Processing / substrate temperature	15 - 25°C (min. 3 degrees above the dew point even during installation and curing)
4	Material consumption	approx. 1,600 - 1,800 g/m ²
5	Walkability (20 °C)	after 18 - 24 hours
6	Subsequent coating (20°C)	within 18 - 24 hours
7	Rel. air humidity	< 75% during the entire laying and curing phase

Technical data		
Cured material (A+B)		
1	Adhesive peel strength (DIN ISO 4624)	> 1,5 N/mm ²
2	Flexural tensile strength (DIN EN 196 / ASTM C 190)	61 N/mm ²
3	Compressive strength (DIN EN 196 / ASTM C 109)	50 N/mm ²
4	Shore D hardness (DIN 53505 / ASTM D 2240)	65
5	Static crack bridging (23°C) (DIN EN 1062-7)	min. 0,5 mm
6	Full load capacity mechanical (20°C) chemical (20°C)	after 7 days after 28 days

Maintenance

To maintain the properties of the synthetic resin flooring in the long term, we recommend regular maintenance. Please ask for our RINOL care instructions.

Protective measures

For information on handling the product, please refer to the valid safety data sheet and the guidelines of the chemical industry on handling coating materials (M004/M023). Suitable protective clothing and safety goggles must be worn during processing.

Skin contact with liquid resins can lead to health problems and allergies.

Colour shade

Almost all colour shades are possible. Slight colour deviations are unavoidable due to raw material-related reasons. Colour deviations may occur permanently with light shades of colour, e.g. in the yellow or orange range, due to filling with quartz sand.

Notes

The necessary care was taken when compiling the technical data for the company's products. However, all recommendations or suggestions made with regard to the use of these products are made without guarantee, as the conditions under which they are used are beyond the company's control. It is the responsibility of the customer to check whether the products are suitable for the respective application and whether the conditions of use are appropriate for the respective product. No liability claims can therefore be derived from the product data sheet.

We would also like to point out that only the latest version of the data sheet is valid and replaces all older data sheets. The technical data given are approximate values determined by us and do not constitute a guarantee of properties. Misprints, errors, translation errors and changes reserved. Please note that the information in the system data sheets of the different languages / countries may differ. Further information can be found on our website at www.rinol.com

PU resins are generally not colour-stable in the long term under UV and weathering influences. Chemically and mechanically stressed surfaces are subject to wear and tear due to use. Regular maintenance is recommended. Consumption quantities, processing time, walkability and achievement of load-bearing capacity depend on temperature and object.

The technical data sheet does not exempt the user from carrying out his own tests - if necessary, within the scope of his possibilities - with regard to applicability. Please refer to the RINOL Technical Guide for layer structure options and more detailed information on the installation of RINOL products.

Important note

In addition to the ambient temperature, the floor temperature is of decisive importance.

Chemical reactions are generally delayed at low temperatures. This extends the recoating and walkability times. The higher viscosity of the products also increases material consumption.

At higher temperatures, the chemical reactions are shortened and the

recoating and walkability times are reduced.

The material must always be protected from water during application. During application, care must be taken to ensure that no drops of sweat or water get into the fresh coating surface (foaming). Furthermore, the material must be protected from direct contact with water for approx. 24 hours (at 20°C) after application.

If there is a longer waiting time of >24 hours between the individual work steps or if surfaces already treated with liquid synthetic resins are to be coated again after a longer period of time, the old surface must be cleaned well, sanded thoroughly and vacuumed.

Applications that are not clearly mentioned in this technical data sheet may only be carried out after consultation and written confirmation with or by the application technology department of RCR Flooring Products Italia S.r.l..


Always protect against the effects of moisture on the back and from pressure, even during use.

Legal information:

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

CE labelling:

DIN EN 13813 "Screed mortars, screed compounds and screeds - 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 labelled with the CE mark.

 RCR Flooring Products Italia S.r.l. Via Chiarugi 76/U I-45100 Rovigo
05 ¹ EN 13813 SR-B1,5-IR4
1119-CPR-0833 09 EN 1504-2

RINOLPU-C500

TOUGH, HARD-WEARING, SELF-LEVELLING COATING

RINOL

Synthetic resin screed/coating for indoor use in buildings (structures according to technical data sheets)	
Fire behaviour:	B _{FL-S1}
Water permeability:	NPD ²
Wear resistance (Abrasion Resistance):	NPD ²
Tensile bond strength (Bond):	B 1,5
Impact resistance	IR 4
Impact sound insulation:	NPD ²
Sound absorption:	NPD ²
Chemical resistance:	NPD ²

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

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

CE marking: 1504-2

Floor systems that are subject to mechanical stresses and whose products comply with DIN EN 1504-2 must also fulfil the requirements of 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 data sheet can be requested.

EU Regulation 2004/42 (Decopaint Directive):

The maximum VOC content permitted in EU Regulation 2004/42 (product category IIA / j type sb) when ready for use is 500g/l (limit 2010). The maximum content of RINOL PU-C500 in ready-to-use condition is <500g/l VOC.

GIS Code: PU 60

Further information on the GIS code is available from Wingis online at <https://www.wingisonline.de>