



1 General data

Product description / Application

RINOL PU-C510 is a decorative, UV-resistant, impact sound-absorbing, flexible, ready-to-use 3-component coating compound made of high-quality, solvent-free polyurethane resin with a quartzite look.

After mixing with the appropriate hardener, RINOL PU-C510 is used to produce flexible, seamless, non-porous flooring layers that can withstand transport and pedestrian traffic. The flooring is easy to clean, easy to disinfect and has good resistance to fuels and lubricants, most solvents and chemicals.

RINOL PU-C510 must be sealed with RINOL PU-TS686 or RINOL PU-TS688.

RINOL Systems

RINOL PU-C510 is the top coat and RINOL PU-TS686 / RINOL PU-TS688 is the transparent sealer for the RINOL system:

- RINOL **DESIGN PU**

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-C510 must be applied on top of a RINOL PU-L300 levelling compound in a light colour to match the top layer.

The surface leveller must be as even as possible to ensure even and homogeneous distribution of RINOL PU-C510. Otherwise, shading may occur in the top layer.

To ensure good interlayer adhesion, the levelling layer must be sprinkled with quartz sand.

The RINOL PU-C510 top layer must be installed no later than 24 hours after the previously applied layer, otherwise the levelling layer must be sanded immediately before the top layer is installed. Installation with a gradient is not possible due to the special appearance.

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-C510 before and during the curing phase.

Application

The product is supplied in coordinated quantities in 3-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 1 - 2 minutes, then the B-component is completely emptied into the A-component. Both components are mixed for 1 - 2 minutes using a suitable electric mixer. Finally, the C component (design filler) is stirred in homogeneously for exactly 2 minutes (time must be observed precisely, otherwise colour differences will occur). Avoid stirring in air. The mixture is decanted and stirred again briefly.

Technical data		
Liquid mixture (A+B+C)		
1	Container size (2-component container)	20 kg container
2	Colours	RINOL DESIGN 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+C)		
1	Density (20°C)	approx. 1.40 g/cm ³
2	Working time (20°C)	approx. 25 minutes
3	Processing / substrate temperature	15-25°C (min. 3 degrees above dew point also during laying and curing)
4	Material consumption	approx. 2,500 - 3,000 g/m ²
5	Walkability (20 °C)	after approx. 24 hours
6	Rel. humidity	< 75% during the entire laying and curing phase

Technical data		
Cured material		
1	Adhesive peel strength (DIN ISO 4624)	> 2,0 N/mm ²
2	Flexural tensile strength (DIN EN 196 / ASTM C 190)	14 N/mm ²
3	Compressive strength (DIN EN 196 / ASTM C 109)	30 N/mm ²
4	Shore A hardness (DIN 53505 / ASTM D 2240)	approx. 82
5	full load capacity mechanical (20°C) chemical (20°C)	after 7 days after 28 days

RINOL PU-C510 is poured onto the surface to be coated and applied with a notched trowel No. 48 (layer thickness control) to cover the entire surface. If uniform layer thicknesses are to be achieved, the toothed strips of the trowel must be replaced regularly. The coating must be re-rolled with a spiked roller within the processing time to achieve a uniform appearance.

Due to the raw material, so-called "streaks" may form, but these do not represent a defect and are a typical appearance of RINOL PU-C510.

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.

Maintenance

To preserve 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.

Notes

Due care has been taken in 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

Chemically and mechanically stressed surfaces are subject to wear 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.

CE 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

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) is 500g/l when ready for use (limit 2010). The maximum content of RINOL PU-C510 in ready-to-use condition is <500g/l VOC.

GIS Code: PU 40

You can obtain information from Wingis at <https://www.wingisonline.de>