

# RINOLPU-V411

## WEAR LAYER FOR RINOLPARKING SYSTEM

# RINOL

### 1 General data

#### Description du produit / Application

RINOL PU-V411 is a solvent-free, two-component, viscoplastic, polyurethane-based coating compound.

RINOL PU-V411 is applied in the high-quality RINOLPARKING coating system OS11 a) as a wear layer on the RINOL PU-L311 N floating layer.

The material is tested in the system in accordance with OS-F and DIN EN 1504-2, OS11.

RINOL PU-V411 is easy to apply and, once fully cured, is characterised by good elasticity and high mechanical strength. The yellowing that occurs when used in areas exposed to UV radiation does not impair the technical properties of the material.

### 2 Laying instructions

#### Substrate preparation

The substrate must be primed without pores, clean and free of separating agents and coated with "hwO" RINOL PU-L311 N. RINOL PU-L311 N must be cured at least tack-free. If the waiting time is exceeded, adhesion with RINOL PU-L311 N may be reduced. The adhesion reduction values must be at least 1.5 N/mm<sup>2</sup>.

Care must be taken to ensure that no substances containing silicone or other reaction-interfering substances come into contact with RINOL PU-V411 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 B component must be completely emptied into the A component. Both components must be mixed homogeneously for at least 2 - 3 minutes using a suitable electric mixer. The mixture is then decanted and stirred again briefly. After mixing in 30 % quartz sand RINOL QS10, RINOL PU-V411 is stirred again briefly and poured in portions onto the surface to be coated and applied in the appropriate layer thickness using a notched trowel or spatula. The liquid coating is sprinkled with an excess of RINOL QS20 quartz sand (approx. 4 kg/m<sup>2</sup>).

We generally recommend working at falling temperatures. The quartz sand for mixing and sanding must be dry. If the floor is laid in direct sunlight, quartz sand must be applied immediately. The formation of "bald patches" must be avoided at all costs.

#### Recoating

Excess quartz sand must be completely removed before recoating. When recoating up to 24 hours after installation, the levelling layer does not need to be sanded separately. Subsequent reworking is only possible after careful sanding.



Technical data		
Liquid mixture (A+B)		
1	Container size (2-component container)	25 kg container
2	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. 1.32 g/cm <sup>3</sup>
2	Working time (23°C)	approx. 20 minutes
3	Processing / substrate temperature	10-25°C (min. 3 degrees above dew point also during laying and curing)
4	Material consumption	approx. 1,500 g/m <sup>2</sup>
5	Subsequent coat (20°C)	12 hours
6	Rel. air humidity	< 75% during the entire laying and curing phase

Technical data		
Cured material (A+B)		
1	Elongation at 20°C (DIN 53504)	approx. 100 %
2	Shore A hardness (DIN 53505)	approx. 90

#### 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

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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 is available on our website at [www.rinol.it](http://www.rinol.it)

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 build-up options and more detailed information on the installation of RINOL products.

Please note: for coating systems according to DIN EN 1504-2, the corresponding test reports/documentation must be observed.

### 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](http://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.

<b>CE</b> RCR Flooring Products Italia S.r.l. Via Chiarugi 76/U I-45100 Rovigo
05 <sup>1</sup> 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:	NPD <sup>2</sup>
Water permeability:	NPD <sup>2</sup>
Wear resistance (Abrasion Resistance):	NPD <sup>2</sup>
Tensile bond strength (Bond):	B 1,5
Impact resistance	IR 4
Impact sound insulation:	NPD <sup>2</sup>
Sound absorption:	NPD <sup>2</sup>
Chemical resistance:	NPD <sup>2</sup>

- 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-V411 in ready-to-use condition is <500g/l VOC.

### GIS Code: PU 40

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



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