



## 1 General data

### Product description / Application

RINOL EP-S643 is a coloured, ready-to-use 2-component coating compound made of high-quality, solvent-free epoxy resin. After mixing with the corresponding hardener, RINOL EP-S643 is used to produce non-porous, seamless flooring coatings with a characteristic orange peel structure that are easy to clean and have good resistance to fuels and lubricants, most solvents and many chemicals.

RINOL EP-S643 is used as a rolled coating on pre-primed subfloors or as a sealant for RINOL interlocking floor coverings in one or more coats.

## 2 Installation instructions

### Substrate preparation

The substrate must be clean and free of release agents. RINOL EP-S643 is applied directly onto the primer or onto an EP levelling layer (RINOL EP-L300), depending on the desired evenness. The RINOL EP-S643 coating must be applied no later than 24 hours after the previously applied layer.

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 EP-S643 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 at least 1 - 2 minutes. The B component must then be completely emptied into the A component. Both components must be mixed with a suitable electric mixer for at least 2 - 3 minutes. Avoid stirring in air. The mixture should be decanted and then stirred again briefly.

RINOL EP-S643 is poured in portions onto the surface to be coated and applied with a chewing trowel or trowel over the entire surface, but as thin as possible. Subsequently, a textured roller is used to achieve the typical orange peel texture.

To be able to walk on the wet coating, the applicator must wear spiked shoes.

### 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.

### Colour shade

Almost all colour shades are possible. Slight colour deviations are unavoidable due to the raw materials used. Colour deviations may occur permanently with light shades of colour, e.g. in the yellow or orange range, due to filling with quartz sand. Epoxy resins are generally not permanently colour-stable or tend to yellow when exposed to UV and weathering. Artificial UV light can also change the colour and also lead to yellowing. The technical properties remain unchanged.

Technical data		
Liquid mixture (A+B)		
1	Container size (2-component container)	25 kg container
2	Colours	RINOL colour chart, others on request
3	Shelf life / storage	12 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. 1.30 g/cm <sup>3</sup>
2	Processing time (20°C)	approx. 30 - 35 minutes
3	Processing / material and room temperature	15 - 25°C (min. 3 degrees above the dew point also during laying and curing)
4	Material consumption (depending on substrate)	approx. 500 - 700 g/m <sup>2</sup> /layer
5	Walkability (20°C)	after approx. 18 hours
6	Subsequent coating (20°C)	within 12 - 24 hours
7	Full load-bearing capacity mechanical (20°C) chemical (20°C)	after 7 days after 28 days
8	Rel. humidity	< 80% during the entire laying and curing phase

Technical data		
Cured material		
1	Adhesive peel strength (DIN ISO 4624)	1,5 N/mm <sup>2</sup>
2	Flexural tensile strength (DIN EN 196)	41 N/mm <sup>2</sup>
3	Compressive strength (DIN EN 196)	78 N/mm <sup>2</sup>
4	Abrasion resistance (DIN 53754 / ASTM D 1044)	84 mg/1.000 cycles
5	Shore D hardness (DIN 53505 / ASTM D 2240)	81
6	Light fastness (DIN EN ISO 105-B02)	7 (scale 1-8, 8=very good)

### 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](http://www.rinol.com)

EP 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. Furthermore, the material must be protected from direct contact with water for approx. 24 hours (at 20°C) after application. Within this time, exposure to water (e.g. also dew, condensation) can lead to white discoloration (carbamate formation) on the surface or the surface is sticky at these points and this can impair adhesion to subsequent coatings.

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 - Characteristics 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 <sup>1</sup> EN 13813 SR-B1,5-IR4
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
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 applied
- 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.

# RINOLEP-S643

## COLOURED TEXTURED COATING

# RINOL

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 EP-S643 in ready-to-use condition is <500g/l VOC.

### **GIS Code: WGK RE 30**

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