



## 1 General data

### Product description / Application

RINOL EP-L320 is a transparent, low-viscosity, solvent-free 2-component laminating resin based on high-quality epoxy resin. After mixing with the appropriate hardener, RINOL EP-L320 is used as a laminating resin for glass fabric inlays in industrial flooring with high demands on mechanical properties (approx. 600 - 1,000 g/m<sup>2</sup> for glass fibre fabrics with a basis weight of approx. 300 g/m<sup>2</sup>).

#### RINOL systems:

RINOL EP-L320 is the laminating resin for the following RINOL systems:

- RINOL **HEAVY DUTY**

## 2 Installation instructions

### Substrate preparation

RINOL EP-L320 is applied to the RINOL EP-L300 levelling compound. The substrate must be clean and free of separating agents. The laminating layer should be installed no later than 24 hours after the levelling layer.

Ensure that no substances containing silicone or other substances that may interfere with the reaction come into contact with RINOL EP-L320 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 with an electric agitator for at least 1 - 2 minutes. Avoid stirring in air. The mixture should be decanted and then stirred again briefly.

RINOL EP-L320 is poured in portions onto the RINOL glass fabric membranes laid butt to butt and spread over the entire surface with a chewing trowel. Subsequently, a short-pile plush roller is used for subsequent rolling so that no air bubbles remain in the laminate.

If a second layer of glass fibre fabric is to be applied, this is laid across the first layer and applied in the same way. The still damp layer is then sprinkled with fire-dried quartz sand (RINOL QS20, consumption approx. 800 g/m<sup>2</sup>).

### 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. Subsequent reworking is only possible after careful sanding.

### 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.

Technical data		
Liquid mixture (A+B)		
1	Container size (2-component container)	25 kg container
2	Colour	transparent
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. 1.10 g/cm <sup>3</sup>
2	Viscosity (20°C)	approx. 600 mPas
3	Working time (20°C)	approx. 20 - 25 minutes
4	Processing / substrate temperature	12-25°C (min. 3 degrees above the dew point even during laying and curing)
5	Material consumption (depending on substrate)	approx. 600 - 1,000 g/m <sup>2</sup>
6	Walkability (20°C)	after approx. 12 - 15 hours
7	Subsequent coating (20°C)	within 12 - 24 hours
8	Rel. air humidity	< 80% during the entire laying and curing phase

Données techniques		
Matériau durci (A+B)		
1	Adhesive peel strength (DIN ISO 4624)	> 1,5 N/mm <sup>2</sup>
2	Flexural tensile strength (DIN EN 196)	37 N/mm <sup>2</sup>
3	Compressive strength (DIN EN 196)	70 N/mm <sup>2</sup>

### 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 www.rinol.comunterschiedlichen languages / countries may differ. Further information is available on our website at www.rinol.it

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 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. During 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 in these areas and this can impair adhesion to subsequent coatings.

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 recoated 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 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, RCR Flooring Products cannot guarantee a work result or accept any liability 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 - 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:	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 EP-L320 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>