



1 General data

Product description / Application

RINOL EP-L300 is a coloured, ready-to-use 2-component levelling compound based on high-quality epoxy resins and fillers. After mixing with the appropriate hardener, RINOL EP-L300 produces seamless, non-porous levelling coats that can be filled with up to 30% by weight quartz sand in order to level out larger irregularities.

RINOL systems:

RINOL EP-L300 is the levelling layer for the following RINOL systems:

- RINOL**ALLROUNDER**
- RINOL**CONDUCTIVE**
- RINOL**HEAVY DUTY**
- RINOL**DESIGN**
- RINOL**ETEC**

2 Installation instructions

Substrate preparation

RINOL EP-L300 is applied to the primed substrate. The substrate must be clean and free from separating agents. The levelling layer should be applied no later than 24 hours after priming. Subsequent reworking of the primer is only possible after careful sanding.

It is essential to check whether the substrate is open-pored, porous or similarly absorbent, as this may lead to the formation of bubbles or pores in the coating. This must be checked by the applicator and remedied if necessary.

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-L300 before and during the curing phase.

Application

The product is supplied in 2-component containers in the correct mixing ratio. Before processing, the material must be conditioned to at least ambient temperature (room and floor temperature).

The A-component must be stirred for approx. 2–3 minutes. The B-component must then be emptied completely into the A-component and both components must be mixed with a suitable mechanical stirrer for at least 2–3 minutes. Air entrapment during mixing must be avoided. The mixture should then be decanted and stirred briefly again. The product can be filled with up to 30% by weight of quartz sand (RINOL QS20).

RINOL EP-L300 must be poured onto the surface to be coated and applied with a suitable trowel, smoothing trowel or float to the required layer thickness. To improve intercoat adhesion, the wet coating may be broadcast with RINOL QS20 quartz sand (consumption approx. 1 kg/m²).

If vertical surfaces are to be coated, add 1–3% RINOL X965 thixotropic agent.

Recoating

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

Technical data		
Liquid mixture (A+B)		
1	Container size (2-component container)	25 kg container
2	Colour	RINOL colour chart
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. 1.55 g/cm ³
2	Working time (20°C)	approx. 20 – 25 minutes
3	Processing / substrate temperature	12–25°C (min. 3 degrees above dew point also during laying and curing)
4	Material consumption (depending on substrate)	approx. 800 – 1,000 g/m ²
5	Walkability (20°C)	after approx. 12 – 15 hours
6	Subsequent coating (20°C)	within 12 – 24 hours
7	Rel. air humidity	< 80% 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)	30 N/mm ²
3	Compressive strength (DIN EN 196)	54 N/mm ²

Protective measures

For information on handling the product, please refer to the applicable 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

The technical data for the Company's products and systems have been compiled with due care. However, any 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 control of the Company.

It is the responsibility of the customer to determine whether the products are suitable for the particular application and whether the conditions of use are appropriate for the particular product. No liability can therefore be derived from the product data sheet.

Please note that only the latest version of the data sheet is valid and replaces all previous versions. 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 datasheets may differ in different languages/countries. For further information please visit our website at 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 application tests, if necessary, within the limits of his capabilities. Please refer to the RINOL Technical Guide for information on coating 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.

At low temperatures, chemical reactions generally proceed more slowly. This extends the recoating and walkability times. The higher viscosity of the products also increases material consumption.

At higher temperatures, chemical reactions proceed more quickly, reducing the recoating and walkability times.

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. dew or condensation) can lead to white discolouration (carbamate formation) on the surface or make the surface sticky in these areas. This may impair adhesion to subsequent coatings.

If the interval between individual work steps exceeds 24 hours, or if surfaces already treated with liquid synthetic resins are to be recoated after a longer period, the old surface must be cleaned thoroughly, thoroughly sanded and vacuumed. Applications not expressly mentioned in this technical data sheet may only be carried out after consultation with, and written confirmation from, the application technology department of RCR Flooring Products Italia S.r.l.

The system must always be protected against rear moisture influence and water 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.com. 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 V. 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 interior use in buildings (structures according to technical data sheets)	
Fire behaviour:	BFL-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 EP-L300 in ready-to-use condition is <500g/l VOC.

RINOLEP-L300

PIGMENTED LEVELLING COAT

RINOL

GIS Code: WGK RE 30

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