

1 General data

Product description / Application

RINOL EP-I100 is a colourless, ready-to-use, solvent-based deep penetrating primer made of high-quality epoxy resin, which ensures good penetration into the pore space of concrete surfaces due to its low viscosity.

After mixing with the corresponding hardener, RINOL EP-I100 is used as a deep penetrating primer or for impregnating and consolidating hydraulically setting subfloors or screeds in industrial, commercial or residential construction. The material is also suitable for open surfaces.

2 Laying instructions

Substrate preparation

RINOL EP-I100 can be applied directly to the substrate at substrate moisture levels of up to max. 4% (CM measuring method). The substrate should have an adhesive tensile strength of at least 1.5 N/mm² and must be free of oily, greasy or separating agent-containing impurities, loose particles etc. Cracks and cavities must be properly repaired beforehand.

It is essential to check whether the substrate is open-pored, porous or similar, as in these cases 2 or more work steps are usually required to achieve optimum pore sealing. Pore sealing must always be ensured to prevent the formation of bubbles in the subsequent layers. In individual cases, a test surface must be created. This also applies to highly absorbent and/or porous substrates.

Ensure that no substances containing silicone or other substances that may interfere with the reaction come into contact with RINOL EP-I100 before and during the curing phase.

Application

The product is supplied in coordinated quantities in 2-component containers. Before processing, the material must be warmed to at least ambient temperature (room and floor temperature).

The B-component container must be completely emptied into the A-component container. Both components are mixed homogeneously with a mechanical agitator for at least 2-3 minutes. Avoid stirring in air. The mixture is decanted and stirred again briefly.

RINOL EP-I100 is poured in portions onto the surface to be coated and applied using a lambskin roller. Two applications are recommended for highly absorbent substrates.

Recoating

For adhesion reasons, a subsequent coat should be applied immediately after drying (15 - 24 hours), but after 36 hours at the latest.

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
2	Colours	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. 0.98 g/cm ³
2	Solid content	30%
3	Processing time (20°C)	approx. 60 minutes
4	Processing / material and room temperature	15-25°C (min. 3 degrees above dew point also during installation and curing)
5	Material consumption (depending on substrate)	approx. 150-400 g/m ²
6	Walkability (20°C)	after approx. 15 hours
7	Subsequent coating (20°C)	within 15-36 hours
8	Rel. air humidity	< 80% during the entire laying and curing phase

Notes

Due care has been taken in compiling the technical data for the company's products. 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 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 data sheets of the different languages / countries may differ. Further information can be found on 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.

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 discolouration (carbamate formation) on the surface or the surface is sticky in these areas and this can impair adhesion to subsequent coatings.

Always protect against the effects of moisture on the back and 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 marking: 1504-2

Flooring systems that are subject to mechanical stresses and whose products comply with DIN EN 1504-2. 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.

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GIS Code: WGK RE 30

Further information on the GIS code can be obtained from Wingis online at <https://www.wingisonline.de>