RINOL*EP-P230*

PRIMER FOR OIL CONTAMINATED AND DAMP SUBSTRATES

1 General data

Product description / Application

RINOL EP-P230 is a ready-to-use 2-component priming compound made of high-quality epoxy resin, which is used as a primer and barrier coat for oil-contaminated and slightly damp substrates (residual substrate moisture in cementitious systems up to 5.0%, in anhydrite-bound systems up to 1.0%, (measured according to CM measuring method).
Surfaces primed with RINOL EP-P230 are characterised by excellent adhesive tensile strength (> 2.5 N/mm²). Breakage usually occurs in the concrete.

2 Laying instructions

Substrate preparation

RINOL EP-P230 can be applied directly to the cementitious substrate at substrate moisture contents of up to max. 5% (measured using the CM measuring method). The substrate must be sufficiently stable. The surface tensile strength of the surface to be primed must be at least 1.5 N/mm² on average and the compressive strength at least 25 N/mm².

A prepared substrate is a prerequisite for optimum adhesion priming. The substrate must have an adhesive tensile strength of min. 1.5 N/mm². The bonding and adhesion of the epoxy resin to a mineral substrate is based on anchoring via the roughness depth and a good penetration capacity into the substrate. High-strength, vacuum-treated or extremely smoothed and very dense concrete surfaces require more intensive substrate preparation.

It is essential to check whether the substrate is porous, porous or similar, as in these cases two 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.

For pre-cleaning, the substrate is shot-blasted to remove oil contamination from the surface as well as loose parts of the cementitious substrate. The primer RINOL EP-P230 must be applied immediately afterwards, otherwise the rising oil will hinder adhesion.

Ensure that no substances containing silicone or other substances that may interfere with the reaction come into contact with RINOL EP-P230 before and during the curing phase.

Application

The product is supplied in coordinated 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, which has been stirred for 1 - 2 minutes. Mix both components homogeneously for at least 1 - 2 minutes using an electric agitator. The mixture must then be decanted and stirred again briefly. Avoid stirring in air.

RINOL EP-P230 is poured onto the surface to be coated and spread with a chewing trowel or rubber squeegee. The primer must be applied film-forming and pore-free, e.g. air-entrained concrete requires special substrate preparation. Depending on the substrate, several coats may be necessary.

Technical data		
Liquid mixture (A+B)		
1	Container size (2-component container)	25 kg container
2	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. 2.10 g/cm³
2	Processing time (20°C)	approx. 40 minutes
3	Processing / material and room temperature	12 - 25°C (min. 3 degrees above dew point also during installation and curing)
4	Material consumption/working cycle	approx. 600 - 1,000 g/m²
5	Walkability (20°C)	after approx. 14 - 18 hours
6	Subsequent coating (20°C)	within 14 - 24 hours
7	Rel. air humidity	< 80% during the entire laying and curing phase

Technical data		
Cured material		
1	Adhesive peel strength (DIN ISO 4624)	> 1,5 N/mm²
2	Flexural tensile strength (DIN EN 196)	approx. 33 N/mm²
3	Compressive strength (DIN EN 196)	approx. 72 N/mm²

If the substrate is heavily oily, the primer is brushed in well for better wetting and sprinkled with quartz sand (RINOL QS20, 1.0-2.0 kg/m²).

Caution:

- When recoating with levelling coatings, do not sand excessively
- Do not sand when recoating with conductive coatings
- If the RINOL EP P230 is to be coated with a levelling coat (e.g. RINOL EP-C500), we recommend applying a scratch coat, e.g. RINOL EP-P202, beforehand to avoid the formation of pores.

Recoating

Before applying the subsequent coat, any quartz sand that is not firmly bonded must be completely removed by sanding, sweeping and vacuuming. If the primer is to be recoated after more than 24 hours, it must be scattered over the entire surface with RINOL QS20 quartz sand (consumption approx. 3 kg/m²) or sanded accordingly and the sanding dust vacuumed off.

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The uncoated primer can be overcoated with RINOL epoxy or polyurethane resins within 24 hours without 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.

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

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 discolouration (carbamate formation) on the surface or the surface is sticky in these areas and this can severely 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 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. 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.

CE

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05[1]
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:	B_{FL}-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

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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.

GIS Code: WGK RE 30
Further information on the GIS code is available from Wingis online at https://www.wingisonline.de

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