RINOL*EP-P214* (LEED V4 / low-emission)

PRE-FILLED PRIMER FOR RINOL*PARKING* SYSTEMS

1 General data

Product description / Application

RINOL EP-P214 is a ready-to-use 2-component primer based on solvent-free epoxy resin, lightly pre-filled with a special mixture of fillers.
RINOL EP-P214 can be used for priming mineral, absorbent substrates for RINOL***PARKING OS11 LE*** and RINOL***PARKING OS8 LE*** and is suitable for residual substrate moisture in cementitious systems up to 5.5%, in anhydrite-bound systems up to 0.5% (measured using the CM measuring method). Always protect against moisture from the rear and pressing moisture. RINOL EP-P214 is also used as a binder for the production of the primer scratch coat of our 2-layer RINOL***PARKING OS8 LE*** system in accordance with DIN EN 1504-2 in conjunction with DIN V 18026. The technical specifications and consumption quantities in our test report RINOL***PARKING OS8 LE*** (2.5 mm) must always be observed.

RINOL EP-P214 has been tested in accordance with DIN EN 13578 with regard to bonding behaviour in the event of moisture penetration from the rear. Special processing is required for this.

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. 1.23 g/cm³
2	Processing time (20°C)	approx. 20 - 25 minutes
3	Processing / material and room temperature	12 - 25°C (min. 3 degrees above dew point also during laying and curing)
4	Material consumption:	300 - 500 g/m²/layer, (without roughness allowance)
5	Material consumption OS8 LE: (Parking System)	approx. 800 g/m² binder (without roughness allowance)
6	Walkability (20°C)	after approx. 12 - 15 hours
7	Subsequent coating (20°C)	within 12 - 24 hours
8	Rel. humidity	< 75% during the entire laying and curing phase

Technical data		
Cured material		
1	Adhesive peel strength (DIN ISO 4624)	> 1,5 N/mm²

2 Installation instructions

Substrate preparation

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.

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-etched 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.

The substrate must be pre-treated by shot blasting. The material consumption may vary depending on the blasting pattern. Coarse impurities can be removed by milling.

RINOL EP-P214 can be applied directly to cementitious substrates with a substrate moisture content of up to max. 5.5 % (measured using the CM measuring method). For this purpose, 2 x film-forming and pore-closed priming coats must be applied. The 1st coat must not be sanded. The substrate must have an adhesive tensile strength of at least 1.5 N/mm². It must also be free of oily, greasy or release agent-containing impurities, loose particles, etc. Cracks and cavities must be properly repaired beforehand.

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-P214 before and during the curing phase.

Processing

Before processing, the material must always be warmed to at least the ambient temperature (room and floor temperature) (at least 12°C).

The B-component container must be completely emptied into the A-component container. After mixing with an electric agitator (approx. 3 - 4 min), the mixture is decanted and stirred again briefly.

The primer is then poured in portions onto the surface to be coated and spread with a chewing trowel or rubber scraper. The primer must be re-rolled with a short-pile plush roller. 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. If vertical surfaces are to be coated, add approx. 1-3 % RINOL X965.

To improve the intermediate adhesion, the liquid primer is sprinkled with quartz sand RINOL QS20 (consumption approx. 1 kg/m²).

Caution:

- When recoating with levelling coats, do not sand in excess
- Do not sand when recoating with conductive layers
- Do not sand when applying barrier coats

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Recoating
Recoating must be carried out within 24 hours of installation. Sanding and grinding would destroy the film-forming closed surface.

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. Therefore, no liability claims can 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 is available 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.

Please note: for coating systems in accordance with **DIN EN 1504-2**, the relevant test reports/documentation must be observed.

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 - 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.

CE
RCR Flooring Products Italia S.r.l Via Chiarugi 76/U I-45100 Rovigo
05[1] EN 13813 SR-B1,5-IR4
1119-CPR-0833 09 EN 1504-2

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Synthetic resin screed/coating for interior 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:	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-P214 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

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