RINOL*EP-P211*

PRE-FILLED PRIMER FOR RINOL*PARKING* SYSTEMS

1 General data

Product description / Application

RINOL EP-P211 is a ready-to-use 2-component primer based on solvent-free epoxy resin, lightly pre-filled with a special filler blend. RINOL EP-P211 can be used for priming mineral, absorbent substrates for RINOL Parking OS 11 + OS 8 (New) and is suitable for residual substrate moisture in cementitious systems up to 5.5% and in anhydrite-bound systems up to 0.5% (measured using the CM method). The system must always be protected against rear moisture influence and water pressure.

RINOL EP-P211 is also used as a binder for the production of the primer scratch coat of our 2-layer OS 8 (New) system in accordance with DIN EN 1504-2 in conjunction with DIN V 18026. The technical specifications and consumption values stated in our OS 8 (2.5 mm) test report must always be observed.

RINOL EP-P211 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..

2 Installation instructions

Substrate preparation

The substrate must be sufficiently stable. The average pull-off strength of the surface to be primed must be at least 1.5 N/mm^2 and the compressive strength at least 25 N/mm^2.

The bonding and adhesion of epoxy resin to a mineral substrate are based on anchoring via the roughness depth and on good penetration into the substrate. High-strength concrete surfaces that are vacuum-etched or extremely smooth and very dense require more intensive substrate preparation.

It is essential to check whether the substrate is open-pored, porous or similarly absorbent, as in such cases two or more working steps are usually required to achieve optimum pore sealing. Pore sealing must always be ensured in order to prevent bubble formation in subsequent layers. In individual cases, a test area must be prepared. This also applies to highly absorbent and/or porous substrates.

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

RINOL EP-P211 may be applied directly onto cementitious substrates with a substrate moisture content of up to max. 5.5% (measured using the CM method). For this purpose, 2 film-forming and pore-sealing primer coats must be applied. The first coat must not be broadcast with sand. The substrate must have an adhesive pull-off strength of at least 1.5 N/mm^2.

It must also be free from oily or greasy contaminants, release agents, loose particles and similar substances. 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-P211 before and during the curing phase.

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/cm^3
2	Processing time (20°C)	approx. 20 - 25 minutes
3	Processing / material and room temperature	15 - 25°C (min. 3 degrees above dew point also during laying and curing)
4	Material consumption	300 - 500 g/m^2/layer, (without roughness allowance)
5	Material consumption OS 8 (Parking System)	approx. 900 g/m^2 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/mm^2

Processing

Before processing, the material must be conditioned to at least ambient temperature (room and floor temperature), at least 15°C.

The B-component container must be emptied completely into the A-component container. After mixing with a suitable electric mixer for approx. 3–4 minutes, the mixture must be decanted and stirred briefly again.

The primer must then be poured in portions onto the surface to be coated and spread using a suitable trowel or rubber squeegee. The primer must be back-rolled with a short-pile plush roller. The primer must be applied in a film-forming and pore-free manner; air-entrained concrete, for example, requires special substrate preparation. Depending on the substrate, several coats may be necessary.

If vertical surfaces are to be coated, approx. 1–3% RINOL X965 must be added.

To improve intermediate adhesion, the liquid primer must be broadcast with quartz sand RINOL QS20 (consumption approx. 1 kg/m^2).

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Caution:

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

Recoating

Recoating must be carried out within 24 hours after installation. Sanding or grinding would impair the closed, film-forming surface required for the barrier effect.

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

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 severely 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.

Please note: For coating systems according to **DIN EN 1504-2**, the corresponding 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.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.

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CE 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 indoor use in buildings (structures according to technical data sheets)	
Fire behaviour:	$B_{FL-S}1$
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-P211 in ready-to-use condition is <500g/l VOC.

GIS Code: RE90

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

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