

RINOL *EP-P211*



1 General Information

Our products are “total solid” in accordance with the test method of Deutsche Bauchemie e.v.

Product Description and Use

RINOL EP-P211 ready-to-use, 2-component primer based on solvent-free epoxy resin and slightly prefilled with a special mixture of fillers. RINOL EP-P211 can be used for the priming of mineral, adsorbent substrates and is suitable with substrate residual moistures in cement systems of up to 6.0 % and in anhydrite-bonded systems up to 0.5 % (measured by the CM method). As a basic principle, protect against the infiltrating action of moisture from the rear face.

The material has been tested in the system in accordance with OS-F and Rili DAfStb, OS 8 and OS 11.

2 Laying Instructions

Substrate Preparation

The substrate must exhibit a sufficient load-bearing capacity. We recommend a minimum strength corresponding to a concrete B25 or screed strength class ZE, ME, AE30.

The bond and adhesion of the epoxy resin onto a mineral substrate is based on an anchorage over the roughness depth and good penetration into the substrate. High-strength, vacuumed or extremely smoothed and very dense concrete surfaces require more intensive substrate preparation.

As a matter of principle, it must be checked whether the substrate is open-pore, porous, etc. since in these cases 2 or more applications are generally necessary in order to obtain optimal pore closure. It is fundamental to ensure that there are no open pores in order to avoid the formation of bubbles in the subsequent coatings. A sample should be applied to a test area in each case. This also applies to highly absorbent and/or porous substrates.

The substrate must be prepared by shot-peening. Material consumption may vary depending on the spray pattern. Coarse impurities can be removed by milling.

RINOL EP-P211 can be applied directly onto the cement-bonded substrate with substrate moistures up to a maximum of 6.0 % (measured by the CM method). The substrate must have an adhesive pull strength of at least 1.5 N/mm². In addition, it must be free from oily, fatty or release-agent-containing impurities, loose particles, etc. Cracks and hollow spots must be properly remedied beforehand.

Care should be taken to ensure that no silicone-containing or other materials which could interfere with the reaction come into contact with RINOL EP P211 both before and during the curing phase.

Technical data

Liquid mixture (A+B)

1. Density (20°C)	approx. 1.23 g/cm ³
2. Packaging unit size (2-component container)	25 kg
3. Shelf life/storage	6 months at 5–20°C, store above freezing and out of direct sunlight (even during transport)

Technical data

Cured material

1. Adhesive pull strength (DIN ISO 4624)	>1.5 N/mm ²
--	------------------------

Technical data

Liquid mixture (A+B)

1. Processing time (20°C)	approx. 20-25 minutes
2. Processing/material/room temperature:	15–25°C (min. 3 degrees above the dew point, even during laying and curing)
3. Material consumption	300–800 g/m ²
4. Can be walked on (20 °C)	after 12–15 hours
5. Subsequent layer (20°C)	within 12–24 hours
6. Rel. humidity	< 80% during the entire laying and curing phase

Note:

Material consumption may increase at lower temperatures. Greater consumption should be expected with adsorbent and/or open-pore substrates, such as air-entrained concrete.

Manufacturer:

RCR Flooring Products Italia Srl, via V. Chiarugi 76/U, I-45100 Rovigo Tel +39-0425-411200 Fax +39-0425-411222

RINOL *EP-P211*

Processing

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

The B-component must be emptied completely into the A-component. After mixing using a suitable electric stirring tool (approx. 3-4 min), the mixture is poured into a different container and stirred again briefly.

The primer compound is then poured, in portions, onto the surface to be coated and spread using a spatula or a rubber spreader. The primer should be rerolled using a short-pile fur fabric roller. The primer must be applied so as to form a film and be free from pores, for example in the case of air-entrained concrete a specific substrate preparation is required. Depending on the substrate, a number of applications may be necessary. To cover vertical surfaces, add approx. 1-3% RINOL X965. To improve inter-layer adhesion the liquid primer is sprinkled with silica sand RINOL QS20 (consumption approx. 1 kg/m²).

Note:

- When reworking with levelling coatings do not sand in excess
- When reworking with conductive layers do not sand

Reworking

Before applying the next layer excess silica sand must be removed completely. If reworking the layer within 24 hours following application, the primer need not be sanded further. If the next layer is to be applied more than 24 hours following application of the primer, the primer must be covered entirely with silica sand RINOL QS20 (consumption approx. 1 kg/m²) or accordingly ground down and the sanding dust suctioned off.

Safety measures

For information on handling the product please refer to the valid safety data sheet and the Chemicals Regulations regarding the handling of coating materials (M004/M023). Suitable protective clothing and goggles must be worn during processing.

Skin contact with liquid resins can be harmful to health and may lead to allergies.

Possibilities for layering and detailed information about the application of RINOL products can be found in the RINOL Technical Guide.

Note

The specification values given are approximate values ascertained by us and do not constitute a guarantee of properties. Consequently, no liability claims may be derived from the product data sheet.

EP resins are not generally colour-stable in the long term under the effects of UV and weathering and/or have a tendency to turn yellow.

Please also note that only the most recent version of the technical data sheet is valid and replaces all previous data sheets.

The technical data sheet does not exempt the user from carrying out his/her own tests in terms of applicability within the scope of his/her own limitations if necessary.

Abrasive stresses may lead to scratching of the surface.

All specifications may vary or change depending on the object, laying and substrate conditions as well as temperature.

Please note: the relevant ABPs (test reports) should be followed for the coating systems according ZTV-ING and/or Rili-SIB (2001).

In addition to ambient temperature, floor temperature is of key importance. As a basic principle the chemical reactions are delayed at low temperatures. The reworking time and the time until the floor can be walked on are thus extended. Higher viscosities of the products also cause an increase in material consumption.

At higher temperatures the chemical reactions are shortened and the reworking time and the time until the floor can be walked on are reduced.

The material should generally be protected during processing against exposure to water. Furthermore, the material must be protected against direct exposure to water for approx. 24 hours (at 20 °C) following application. During this period exposure to water (for example dew, condensation) could lead to whitening (carbamate formation) on the surface or the surface could become sticky at these points and this could impair adhesion to subsequent coatings.

As a basic principle, protect against the infiltrating action of moisture from the rear face, including during use.

Legal note:

Owing to the different materials, substrates and differing working conditions, no guarantee in terms of result or adhesion for whatever reason and/or legal nature can be assumed by RINOL.

For the rest, the most recent general terms of business of RCR Flooring Products apply and can be requested from us or viewed, in their most recent version, at www.rinol.com and printed out. We reserve the right to make changes to the product specifications.

Manufacturer:

RCR Flooring Products Italia Srl, via V. Chiarugi 76/U, I-45100 Rovigo Tel +39-0425-411200 Fax +39-0425-411222

RINOL **EP-P211**

CE marking:

DIN EN 13813 “screed mortars, screed materials and screeds - properties and requirements” (Jan. 2003) specifies requirements of screed mortars which are used for floor constructions in interior spaces. This standard also covers synthetic resin coatings and sealants. Products which conform to the above-mentioned standard are provided with the CE marking.

 RINOL Italia Research & Technology Srl Via Chiarugi 76/U I-45100 Rovigo
05 ¹ EN 13813 SR-B1,5 -IR4



Synthetic resin screed/coating for internal use in buildings (superstructures in accordance with techn. data sheets)	
Reaction to fire	B _{FL-s1}
Water permeability	NPD ²
Abrasion resistance	NPD ²
Bond	B 1.5
Impact resistance	IR 4
Impact sound insulation	NPD ²
Noise absorption:	NPD ²
Chemical resistance	NPD ²

-1) the last two numbers of the year in which the CE marking was applied

-2) NPD = no performance determined;

CE marking: 1504-2

Flooring systems which are subjected to mechanical stresses and products thereof which comply with DIN EN 1504-2 must also satisfy the requirements of DIN EN 13813.

DIN EN 1504-2 “products and systems for the protection and maintenance of concrete structures – part 2: surface protection systems for concrete” specifies the requirements for the surface protection methods “hydrophobing impregnation”, impregnation and coating.

The relevant data sheet can be requested as necessary.

European Regulation 2004/42 (Decopaint Directive)

The maximum content of VOC (product category IIA/ j type sb) as permitted by European Regulation 2004/42 is 500g/l (limit 2010) in the ready-to-use state. The maximum content of RINOL EP P211 in the ready-to-use state is < 500 g/l VOC.

GIS Code: WGK RE 1

Further information regarding the GIS code can be obtained from Wingis online at <http://www.wingis-online.de/wingisonline/>

Manufacturer:

RCR Flooring Products Italia Srl, via V. Chiarugi 76/U, I-45100 Rovigo Tel +39-0425-411200 Fax +39-0425-411222