



### 1 General data

#### Product description / Application

RINOL EP-P210 is a ready-to-use, 2-component primer based on solvent-free epoxy resin, slightly pre-filled with a special mixture of fillers.

RINOL EP-P210 is used as a moisture barrier layer for industrial floors with increased residual substrate moisture in cementitious systems up to 5.5% (measured using the CM measuring method) and as a primer for RINOL epoxy and polyurethane products. For polyester resins, RINOL EP-P200 is then required as an intermediate coat.

*RINOL EP-P210 is tested according to DIN EN 13578 for use on damp substrates.*

### 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/mm<sup>2</sup> on average, the compressive strength at least 25 N/mm<sup>2</sup>.

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. Coarse impurities can be removed beforehand by milling.

RINOL EP-P210 can be applied directly to the cementitious substrate at substrate moisture contents of up to max. 5.5% (measured using the CM measuring method). The substrate must have an adhesive tensile strength of at least 1.5 N/mm<sup>2</sup>. It must also be free of oily, greasy or release agent-containing contaminants, 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-P210 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. Both components are mixed homogeneously with an electric agitator for at least 3 - 4 minutes, repotted and stirred again briefly. Avoid stirring in air. Particular attention must be paid to a film-forming, closed surface, 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<br>(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. 1.46 g/cm <sup>3</sup>   |
| 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 (20°C)                | 400-800 g/m <sup>2</sup> /layer, depending on substrate                  |
| 5                    | Walkability (20°C)                         | after approx. 12 - 15 hours  |
| 6                    | Subsequent coating (20°C)                  | within 12 - 24 hours   |
| 7                    | Rel. air humidity                          | < 80% during the entire laying and curing phase                          |

| Technical data |  |                         |
|----------------|--|-------------------------|
| Cured material |  |                         |
| 1              | Adhesive peel strength<br>(DIN ISO 4624) | > 1,5 N/mm <sup>2</sup> |

For vertical surfaces, add 1 - 3 % RINOL X965 levelling agent.

After a pre-reaction time of 5 minutes, RINOL EP-P210 is poured in portions onto the surface to be coated. The product must be applied in 2 coats. To ensure good intercoat adhesion, the second coat must be applied as soon as the first coat can just be walked on. The first coat must not be scattered.

Ensure that there are no pores, otherwise the barrier effect of RINOL EP-P210 is not guaranteed.

#### Recoating

Excess quartz sand must be completely removed before applying the subsequent coat. When recoating up to 24 hours after installation, the primer does not need to be sanded. If the primer is only to be recoated after 24 hours, it must be scattered with RINOL QS20 quartz sand (consumption approx. 0.5-1.0 kg/m<sup>2</sup>) or sanded accordingly and the sanding dust extracted.

In the case of synthetic resin mortar, work must be carried out fresh in fresh or the fresh primer must be scattered with fire-dried quartz sand (e.g. 0.3-0.8 mm or 0.7-1.2 mm) depending on the layer thickness of the synthetic resin mortar.

# RINOLEP-P210

PRE-FILLED PRIMER FOR DAMP SUBSTRATES

# RINOL

## 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](http://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 men-

tioned 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](http://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.

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

|  |                     |
|--|---------------------|
| Synthetic resin screed/coating for indoor use in buildings (structures according to technical data sheets) |                     |
| Fire behaviour:  | B <sub>FL</sub> -S1 |
| Water permeability:  | NPD <sup>2</sup>    |
| Wear resistance (Abrasion Resistance):   | NPD <sup>2</sup>    |
| Tensile bond strength:   | B 1,5               |
| Impact resistance  | IR 4                |
| Impact sound insulation:   | NPD <sup>2</sup>    |
| Sound absorption:  | NPD <sup>2</sup>    |
| Chemical resistance:   | NPD <sup>2</sup>    |

- 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.

## **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-P210 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>