

# RINOL *EP-T710*

LEED-certified

## 1 General Information

### Product Description and Use

RINOL EP-T710 is a solvent-free, colourless, low-viscous, ready-to-use 2-component coating compound formed of high-quality epoxy resin having a good resistance to yellowing. RINOL EP-T710 is used to produce tough and hard, pore-free, joint-free floor finishing coatings that withstand heavy footfall. RINOL-EP-T710 is used as a transparent coating on top of the RINOLEXQUISIT décor-carrying layer. In addition, RINOL EP-T710 is also used as a top coat, which is resistant to yellowing, for RINOLSOLID and RINOLSAFETY. This coating is hard-wearing and easy to clean.

Fields of application include supermarkets, breweries or production halls subject to heavy freight traffic and industrial kitchens, slaughterhouses or wet areas in the food industry.

### RINOL Systems

RINOL EP-T710 is used as a top coat for the following RINOL systems:

RINOLSAFETY  
RINOLEXQUISIT  
RINOLSOLID

## 2 Laying Instructions

### Substrate Preparation

The substrate must be clean and free from release agents.

In general it must be checked whether the substrate is open-pore, porous, etc. since in these cases bubbles and pores may be formed in the coating. This should be checked by the fabricator and remedied if necessary.

Absolute cleanliness of tools and clothing must be observed when processing the product.

RINOL EP-T710 must be laid no later than 24 h after the previously applied layer.

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-T710 both before and during the curing phase.

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

### Technical Data

#### Liquid mixture (A+B)

1. Density (20°C)	approx. 1.08/cm <sup>3</sup>
2. Packaging unit size (2-component container)	20 kg
3. Colour	colourless
4. Shelf life/storage	6 months at 5–20°C, store <b>above freezing</b> and out of direct sunlight (even during transport)

### Technical Data

#### Cured material

1. Bending tensile strength (DIN EN 196 / ASTM C 190)	52/mm <sup>2</sup>
2. Compressive strength (DIN EN 196 / ASTM C 109)	67mm <sup>2</sup>
3. Adhesive pull strength (DIN ISO 4624)	> 2.0 N/mm <sup>2</sup>
4. Abrasion resistance (ASTM D 1044 / DIN 53754)	80 mg/1000 cycles (Taber)
5. Shore-D-hardness (DIN 53505 / ASTM D 2240)	80

### Technical Data

#### Liquid mixture (A+B)

1. Processing time (20°C)	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 Top coat Sealant Levelling compound (per layer)	approx. 1000 g/m <sup>2</sup> approx. 300-600 g/m <sup>2</sup> approx. 100-300 g/m <sup>2</sup>
4. Can be walked on (20°C)	after approx. 24 hours
5. Subsequent layer (20°C)	within 12–24 hours
6. Full load-bearing capacity mechanical (20°C)	after 7 days
7. Rel. humidity	< 80% (during the entire laying and curing phase)

### Manufacturer:

RINOL Italia Research & Technology Srl, via V. Chiarugi 76/U, I-45100 Rovigo Tel +39-0425-411200 Fax +39-0425-411222

# RINOL **EP-T710**

## Processing

Absolute cleanliness of tools and clothing must be observed when processing RINOL EP-T710. Lint-free overshoes should be worn over work boots to avoid marking the layer below.

The product is supplied in 2-component containers in the exact mixing ratio.

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

The A-component must be stirred for at least 1-2 minutes. Then the entire contents of the B-component are emptied into the A-component and both components must be mixed homogeneously for at least 2-3 minutes using a suitable electric stirring tool. The inclusion of air in the stirring process must be avoided. The mixture should be poured into a different container and then stirred again briefly.

**RINOLEXQUISIT:** RINOL EP-T710 is poured, in portions, onto the surface to be coated and spread using a serrated spatula (toothed row no. 7, slightly sharpened). In order to achieve uniform layer thicknesses, the toothed rows of the spatula should be checked regularly and replaced if necessary.

**RINOLSAFETY:** To produce seals for broadcast coatings RINOL EP-T710 is spread using a spatula or a rubber spreader and is rerolled using a short-pile fur fabric roller. The formation of puddles should be avoided.

**RINOLSOLID:** After curing, the mortar coating must be applied with RINOL EP-T710 using a spatula. Depending on the porosity of the mortar, this may have to be done 2-3 times. Approx. 0.5-1% fixing agent (RINOL X965) can be added with the first application.

## Reworking

When reworking up to 24 hours following application, the coating will not have to be ground down further. Any reworking after this time is only possible following careful grinding down.

## 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 regarding the application of RINOL products can be found in the RINOL Technical Guide.

## Maintenance

In order to preserve the properties of the synthetic resin floor covering in the long term, we recommend regular maintenance. Please ask for a copy of our RINOL maintenance guide for further information.

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## Note

The specification values given are approximate values ascertained by us and do not constitute guaranteed 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.

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

## Important Note

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 RINOL Italia Research & Technology and RINOL GmbH apply and can be requested from us or viewed, in their most recent version, at [www.rinol.com](http://www.rinol.com) and printed out. We reserve the right to make changes to the product specifications.

# RINOL **EP-T710**

**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 <sup>1</sup> EN 13813 SR-B1,5 -IR4
1119-CPR-0833 09 EN 1504-2



Synthetic resin screed/coating for internal use in buildings (superstructures in accordance with techn. data sheets)	
Reaction to fire	B <sub>FL</sub> -S1
Water permeability	NPD <sup>2</sup>
Abrasion resistance	NPD <sup>2</sup>
Bond	B 2.0
Impact resistance	IR 4
Impact sound insulation	NPD <sup>2</sup>
Noise absorption:	NPD <sup>2</sup>
Chemical resistance	NPD <sup>2</sup>

- 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 T710 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/>

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