RINOL*EP-T760*
UNIVERSAL EPOXY BINDER

1 General data

Product description / Application

RINOL EP-T760 is a colourless, ready-to-use universal 2-component coating compound made of high-quality epoxy resin, which ensures good penetration into the substrate due to its low viscosity.

Surfaces primed with RINOL EP-T760 are characterised by excellent adhesive tensile strength (> 2.0 N/mm²). Breakage usually occurs in concrete. When processing the material into surface coverings, a high wear resistance can be achieved by suitable dimensioning of the filler.

RINOL EP-T760 is used for industrial floors with high requirements. RINOL EP-T760 is used unfilled as a primer. The product can be applied directly to the substrate at substrate moisture contents of up to max. 4.0 % by weight.
When filled and pigmented, the product can be processed into mechanically resilient, easy-to-clean top coats.

Technical data		
Liquid mixture (A+B)		
1	Container size (2-component container)	25 kg containers, 200 kg drums, 1,000 kg IBC containers
2	Colour As primer, unfilled As top coat filled, coloured	colourless see RINOL colour chart
3	Shelf life / storage	12 months at 5 - 20°C, in any case (also during transport) frost-free, protect from direct sunlight

2 Laying 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. A substrate prepared by shot blasting is a prerequisite for optimum adhesion priming.

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-treated 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.

Ensure that no substances containing silicone or other substances that may interfere with the reaction come into contact with RINOL EP-T760 before and during the curing phase.

Technical data		
Liquid mixture (A+B)		
1	Density of binder (20°C)	approx. 1,10 g/cm³
2	Viscosity (20°C)	approx. 400 mPas
3	Processing time (20°C)	approx. 20 minutes
4	Processing / material and room temperature	15 - 25°C (min. 3 degrees above the dew point also during installation and curing)
5	Material consumption Primer Top coat	 approx. 600 - 1.000 g/m² approx. 1.200 - 1.600 g/m²
6	Walkability (20°C)	after approx. 24 hours
7	Subsequent coating (20°C)	within 12 - 24 hours
8	Rel. humidity	< 75% during the entire laying and curing phase

Application

The product is supplied in co-ordinated quantities (100:50). The two components should be added together in batch sizes of approx. 20 kg and mixed homogeneously with an electric mixer (at least 3-4 minutes). Avoid stirring in air.

To ensure perfect curing, the mixing ratio must be strictly adhered to.

RINOL EP-T760 for priming purposes is poured onto the surface to be coated and spread with a chewing trowel or rubber squeegee. To improve the intermediate adhesion, sprinkle with quartz sand (RINOL QS20) over the entire surface.

When using the product as a top coat, first mix components A and B (approx. 10 kg), then stir in the pigments and finally the filler (maximum 150% of the binder quantity). The mixture is poured onto the surface to be coated and spread with a chewing trowel or notched trowel, depending on the surface finish required. After mixing, the product remains workable for approx. 20

Technical data			
Cured material			
		Unfilled	Filled 50%
1	Flexural tensile strength (DIN EN 196 / ASTM C 190)	25 N/mm²	37 N/mm²
2	Compressive strength of mortar (DIN EN 196 / ASTM C 109)	77 N/mm²	114 N/mm²
3	Shore D hardness	approx. 82	approx. 82
4	Tensile strength	47 N/mm²	not tested
5	Modulus of elasticity	1.800 N/mm²	15.500 N/mm²
6	Elongation	27%	not tested
7	Density	approx 1,1 g/cm³	approx. 2,0 g/cm³

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minutes at 20°C.

We recommend a processing temperature of 10-25°C for the primer and 15-25°C for the top coat, but in each case at least 3°C above the dew point.

Maintenance

To maintain the properties of the synthetic resin flooring in the long term, we recommend regular maintenance. Please ask for our RINOL care instructions.

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

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

OIn 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 at these points and this can impair adhesion to subsequent coatings.

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.

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. 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.

CE

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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}-S1
Water permeability:	NPD [2]
Wear resistance (Abrasion Resistance):	NPD [2]
Tensile bond strength (Bond):	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

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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-T760 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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