

1 General information

Product description / Application

RINOL EP-S620 is a ready-to-use, two-component, colored formulation based on solvent-based epoxy resin. RINOL EP-S620 forms a low-thickness, abrasion-resistant coating (0.15-0.3 mm) for surfaces subject to light and medium traffic. The coating obtained has good gloss and resistance to oils, lubricants, and most solvents, acids, and diluted bases.

2 Installation instructions

Substrate preparation

The substrate must be clean and free of loose particles.

Depending on the degree of finish required, RINOL EP-S620 is applied directly to EP-RINOL primer or to a leveling layer (RINOL EP-L300).

RINOL EP-S620 must be applied no later than 24 hours after the previous coat. Take care not to allow the product to come into contact with silicone-containing materials or other substances that may interfere with the reaction while it is still uncured.

Application

Combine component A with component B, after mixing their contents individually for approx. 3 minutes.

Then mix the two components for a few minutes with a low-speed mechanical mixer until you obtain a homogeneous mixture with a uniform color. Pour the product into another clean container and mix briefly.

Spread the material on the floor using a metal or rubber spatula and smooth it with a short-pile roller suitable for solvent-based products. For vertical surfaces, add approximately 1-3% RINOL X965.

Next hand

On surfaces not dusted with quartz sand, sand to promote adhesion if the next coat is applied more than 24 hours after the previous coat.

Colors

There may be slight variations in color between different production batches due to the raw materials used.

Light colors may vary in shade over time or as a result of the addition of quartz filler.

Epoxy resins generally have poor resistance to yellowing when exposed to UV rays.

In addition to sunlight, artificial lighting can also cause yellowing of the resinous surface, but this does not compromise the technical characteristics of the coating.

Maintenance

Regular maintenance is recommended in order to maintain the properties of the resin coating.

Further information can be found in the RINOL technical guides.

Color shades

Almost any color shade is possible. Slight color variations are unavoidable due to the raw material. Color deviations may occur permanently with light colors, for example in the yellow or orange range, due to the filling with



Technical data		
Liquid mixture (A+B)		
1	Container size (container for 2 components)	25 kg container
2	Colors	RINOL color chart, others on request
3	Shelf life / storage life	12 months at 5-20°C, in any case (even during transport) protected from frost and direct sunlight.

Technical data		
Liquid mixture (A+B)		
1	Density (68°F)	approx. 1.38 g/cm ³
2	Processing time (20°C)	about 30 minutes
3	Processing / material and ambient temperature	15-25°C (min. 3 degrees above the dew point even during application and hardening)
4	Material consumption (depending on the substrate)	approx. 150-300g/m ² /layer (depending on the substrate)
5	Walkability (20°C)	after approx. 12 to 24 hours
6	Subsequent coating (20°C)	within 24 hours
7	Relative humidity	< 80% durante l'intera fase di posa e di indurimento.
8	Features mechanical (20°C) chemical (20°C)	after 7 days after 28 days

Technical data		
Hardened material		
1	Adhesion to concrete (DIN ISO 4624)	> 2.0 N/mm ²
2	Flexural strength (DIN EN 196)	38 N/mm ²
3	Compressive strength (DIN EN 196)	77 N/mm ²
4	Abrasion resistance (DIN 53754 / ASTM D 1044)	74 mg/1,000 cycles
5	Shore D hardness (DIN 53505 / ASTM D 2240)	78
6	Lightfastness (DIN EN ISO 105-B02)	6 (scale 1-8, 8=very good)
7	complete resilience mechanical (20°C) chemical (20°C)	after 7 days after 28 days.

quartz sand. Epoxy resins are generally not stable over time or tend to yellow when exposed to UV rays and atmospheric agents. Artificial UV light can also alter color and cause yellowing. The technical properties remain unchanged.

Protective measures

For information on product handling, refer to the valid safety data sheet and the chemical industry guidelines on the handling of coating materials (M004/M023). During processing, it is necessary to wear protective clothing and appropriate safety glasses.

Skin contact with liquid resins can cause health problems and allergies.

Notes

Epoxy resins generally have poor resistance to yellowing when exposed to UV rays.

Surfaces exposed to chemical and mechanical stress are subject to wear.

Regular cleaning and maintenance procedures are recommended.

Important note

Monitoring the ambient temperature as well as the substrate and product temperatures is particularly important.

The cross-linking reaction is inhibited at low temperatures and accelerated at high temperatures.

Take this into account when assessing the interval time between coats and the time before the surface can be walked on.

Different temperatures lead to different product viscosities, which can cause variations in consumption.

Protect the product from exposure to water during the cross-linking phase and for 24 hours thereafter (at 20°C). During this period, contact with water may cause white spots (carbamates) to form on the surface of the coating.

Protect against water infiltration from the substrate during and after cross-linking.

Legal information:

The technical data for the company's products has been compiled with due care. However, any recommendations or suggestions regarding the use of these products are provided without warranty, as the conditions of use are beyond the company's control. It is the customer's responsibility to determine whether the products are suitable for the particular application and whether the conditions of use are appropriate for the product in question. Therefore, no liability can be derived from the product data sheet.

Please note that only the latest version of the technical data sheet is valid and supersedes all previous versions. The technical data provided are approximate values determined by us and do not constitute a guarantee of properties. Subject to typographical errors, mistakes, translation errors, and changes. Please note that the information contained in the system data sheets may differ in different languages/countries. For more information, visit our website at www.rinol.com

The technical data sheet does not exempt the user from carrying out their own application tests, if necessary, within the limits of their capabilities. For information on coating options and more detailed information on installing RINOL products, please refer to the RINOL Technical Guide.

CE labeling:

The DIN EN 13813 standard "Screed mortars, screed compounds and screeds - Properties and requirements" (January 2003) specifies the requirements for screed mortars used in the construction of interior floors.

Synthetic resin coatings and sealants are also covered by this standard. Products that comply with this standard must be labeled with the CE mark.

 RCR Flooring Products Italy LLC 76/U Chiarugi Street 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 behavior:	BFL-S1
Water permeability:	NPD ²
Wear resistance (Abrasion resistance):	NPD ²
Tensile 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

CE marking: 1504-2

Flooring systems subject to mechanical stress and whose products comply with DIN EN 1504-2 must also meet 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 necessary, you can request the corresponding technical data sheet.

EU Regulation 2004/42 (Decopaint Directive):

The maximum VOC content permitted by EU Regulation 2004/42 (product category IIA / j type sb) is 500 g/l when ready for use (2010 limit). The maximum content of RINOL EP-S614 in ready-to-use condition is <500g/l VOC.