



1 General data

Product description

RINOL PU-S686AS is a special, coloured, matt, water-based, UV-resistant, low-emission, electrostatically conductive 2-component polyurethane sealer for the protection and electrostatic restoration of conductive and antistatic floor coverings based on polyurethane and epoxy resins.

RINOL PU-S686AS fulfils the requirements of DIN EN 61340-5-1, ANSI/ESD S20.20 (IEC 61340-4-1, 4-5, ANSI S7.1, ESD STM97.1), TRBS 2153 and DIN VDE 0100-410/T610.

RINOL PU-S686AS forms an extremely hard-wearing film with excellent elasticity, adhesion and high chemical resistance, e.g. to commercially available colourless disinfectants for hands and equipment.

RINOL PU-S686AS runs excellently and is safe to apply. It reduces dirt adhesion and cleaning effort. For professional users only.

RINOL Systems

RINOL PU-S686AS is the optional coloured matt sealer for RINOL systems:

- RINOLETEC
- RINOLETEC V
- RINOLCONDUCTIVE

2 Installation instructions

Substrate preparation

The floor must be clean and dry, free of dust, grease, oil, wax and residues of care products. In the case of floor coverings with a removable factory protective coating, this must be completely removed.

Ensure that no materials containing silicone or other materials that may interfere with the reaction come into contact with RINOL PU-S686AS either before or during the curing phase.

Application

Shake containers A + B well. Add component B to component A and immediately mix both components well by shaking thoroughly. If partial quantities are to be mixed, always mix component A and component B in a ratio of 10:1, adding component B to component A. Room, floor and processing temperature: 15-25 °C. The mixture should be repotted into another container and then stirred again briefly.

Start on the side of the main light incidence (i.e. usually on a window side) and work away from the light so that the surface can be observed during work and any imperfections can be touched up immediately. Spread RINOL PU-S686AS in max. 1 m wide strips across the incidence of light (i.e. parallel to the window surface) with the roller and then roll out evenly in the direction of the incidence of light. Avoid the formation of puddles. RINOL PU-S686AS is rolled out evenly with a lambskin roller (10 mm long). The surface is rolled in a crosswise pattern. The connection times must be kept short.

Colour shade

Slight differences in colour are unavoidable due to different production approaches and raw material fluctuations. This must be taken into account during coating work. Demarcated surface sections must be carried out with the same production batch (see batch no. on the delivery container). Due to

Technical data		
Liquid mixture (A+B)		
1	Container size (2-component container)	8 kg
2	Colours	RINOL colour chart, others on request
3	Shelf life / storage	6 months at 5-20°C, in any case (also during transport) frost-free, protect from direct sunlight

Technical data		
Liquid mixture (A+B)		
1	Processing time (20°C)	max. 4 hours
2	Processing / material and room temperature	15 - 25°C (min. 3 degrees above the dew point even during installation and curing)
3	Material consumption (depending on substrate)	approx. 100 g/m ² /layer
4	Drying time (23°C)	min. 2 hours
5	Walkability (23°C / 50% rel. humidity)	after approx. 12 hours
6	Subsequent coating (23°C / 50% rel. humidity)	after 2 hours
7	Full load-bearing capacity (23°C / 50% rel. humidity)	after 7 days
8	Rel. humidity	< 80% during the entire laying and curing phase

Technical data		
Cured material		
1	Adhesive peel strength (DIN ISO 4624)	> 1,5 N/mm ²
2	Abrasion resistance (DIN 53754)	approx. 20-30 mg / 1,000 cycles
3	Earth leakage resistance (DIN EN 61340-4-1)	< 1 × 10 ⁹ Ω

the addition of conductive particles to achieve conductivity, it is not possible to adjust the colour shade exactly. Own tests are indispensable.

Maintenance

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

We would like to point out that the conductivity of conductive coating systems may be impaired by the application of care substances.

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.

Note

The mixture of RINOL PU-S686AS (A+B) has a pot life of approx. 4 hours at the prescribed processing temperature. Only mix as much RINOL PU-S686AS as can be processed within this period. At higher temperatures of RINOL PU-S686AS (A+B) the pot life is considerably shortened, with cold mixing components the mixing process cannot be carried out carefully enough. Do not close containers with mixed RINOL PU-S686AS tightly, as reaction gases are produced when Comp.A and Comp.B react. Ensure adequate ventilation during application and drying, but avoid draughts and strong sunlight and protect the surface from dust. Switch off underfloor heating beforehand.

Important note

- At temperatures above 25°C, the accelerated reaction may result in visible roller marks - even when cured. In addition to the floor and room temperature, air humidity is of great importance for processing and curing. Due to the surface texture, matt sealers generally need to be cleaned more frequently than glossy sealers.
- High humidity (especially in combination with low temperatures) delays the curing process, thus extending the time required for recoating. After application, the material must be protected from direct contact with water (20°C / 50% relative humidity).
- Coloured products (e.g. hair dyes, coloured wound disinfectants) and plasticiser migration (e.g. from rubber) lead to irreversible discolouration of the sealing layer. If object-specific resistance to hand and instrument disinfectants must be guaranteed, we recommend appropriate preliminary tests with the preparations used on site. If in doubt, ask our technical application consultants in advance.
- The sealant can be damaged by mechanical influences during use. This leads to scratches and, in severe cases, to accelerated wear. Signs of wear may make it necessary to partially or completely restore the seal.
- In order to avoid visible build-up areas during partial restoration, always apply RINOL PU-S686AS exactly from boundary line (weld seam, joint edge) to boundary line. As differences in gloss level between refurbished and untreated partial areas cannot be ruled out, it is always recommended to refurbish closed partial areas (e.g. individual rooms or demarcated areas of use). Natural colour changes are possible and do not constitute a quality defect.
- When using chairs with castors, the castors must comply with EN 12529 (type W). Alternatively, the use of suitable protective mats is recommended.
- Chair or table legs require the use of suitable felt glides.
- Prolonged exposure to aggressive solvents and/or disinfectants can lead to surface changes. Immediate removal is recommended.

We would also like to point out that only the latest version of the technical data sheet is valid and replaces all older data sheets.

Legal information:

DIN EN 13813 "Screed mortars, screed compounds and screeds - Properties and requirements" (Jan. 2003) specifies requirements for screed mortars used for indoor floor constructions.

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

CE labelling:

La norme DIN EN 13813 "Mortiers de chape, masses de chape et chapes - Propriétés et exigences" (janvier 2003) définit les exigences pour les mortiers de chape utilisés pour les constructions de sols en intérieur. Les revêtements et scellements en résine synthétique sont également couverts par cette norme. Les produits conformes à la norme susmentionnée doivent être munis du marquage CE.

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

Synthetic resin screed/coating for interior use in buildings (structures according to technical data sheets)	
Fire behaviour:	NPD ²
Water permeability:	NPD ²
Wear resistance (Abrasion Resistance):	NPD ²
Tensile bond strength:	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

RINOLPU-S686AS

CONDUCTIVE COLOURED MATT SEALANT

RINOL

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 content of VOC (product category IIA / j type sb) according to the European Regulation 2004/42 is 500 g / l (limit value 2010) in ready-to-use condition. The maximum content of RINOL PU-S686AS in ready-to-use condition is < 85 g / l VOC.

GIS Code: PU 40

Further information on the GIS code is available from Wingis online at <https://www.wingisonline.de>