



1 General information

Product description

RINOL PU-TS687 is a special, transparent, UV-resistant, low-emission, water-based 2-component polyurethane sealant for protecting absorbent cement-based floor coverings.

RINOL PU-TS687 forms an extremely wear-resistant film with excellent elasticity, adhesion, and high chemical resistance, for example, to commercially available colorless hand and instrument disinfectants. Excellent leveling, reliable application. Reduces dirt adhesion and cleaning effort. For professional users only.

Application

Absorbent cement-based floor coverings, provided this has been agreed with and recommended by the floor covering manufacturer.

Not suitable for conductive or dissipative floor coverings. The suitability for safety floor coverings and more structured surfaces must be clarified in advance on a project-specific basis.

2 Installation instructions

Preparation of the substrate

The floor covering must be clean and dry and free of any residue from dust, grease, oil, wax, or care products. For floor coverings with a removable factory protective coating, this must be completely removed.

Ensure that no silicone-containing or other substances that could interfere with the reaction come into contact with RINOL PU-TS687 before and during the curing phase.

Application:

Shake containers A and B well. Pour Comp. B in Computer Science A and mix both components thoroughly together immediately. Coating and processing temperature 15–25 °C.

Start on the side where most of the light is coming in (usually on the window side) and work away from the light so that you can see the surface clearly while you work and can immediately correct any imperfections. Apply RINOL PU-TS687 with a roller in strips no more than 1 meter wide, perpendicular to the direction of light (i.e. Apply parallel to the window surface and then roll out evenly in the direction of the light. Please avoid the formation of puddles.

After sufficient drying time (at least 2 hours, but on the same day), reapply the sealing mixture to absorbent coverings. For newly laid, non-absorbent floor coverings, a single application is usually sufficient; a second application increases the protective effect.

RINOL PU-TS687 is applied evenly with a lambskin roller (10 mm long). The surface is rolled again crosswise. Connection times must be kept short.

Maintenance

To maintain the properties of the synthetic resin floor covering in the long term, we recommend regular care and cleaning. Due to its good cleanability, initial care is not absolutely necessary for RINOL PU-TS687.

| Technical specifications | | |
|--------------------------|---|---|
| Liquid mixture (A+B) | | |
| 1 | container size (2-component container) | 5 kg |
| 2 | colors | transparent |
| 3 | Shelf life / Storage | Store at 5–20 °C for 6 months, always store frost-free (including during transport) and protect from direct sunlight. |

| Technical specifications | | |
|--------------------------|--|--|
| Liquid mixture (A+B) | | |
| 1 | Processing time (68 °F) | maximum 4 hours |
| 2 | Processing / Material and room temperature | 15–25 °C (at least 3 degrees above the dew point, even during installation and curing) |
| 3 | Material consumption (depending on the substrate) | approx. 100g/m ² /layer |
| 4 | Drying time (23 °C) | at least 2 hours |
| 5 | Accessibility (23 °C / 50% rel. Humidity) | after about 12 hours |
| 6 | Subsequent coating (23 °C / 50% rel. Humidity) | after 2 hours |
| 7 | Full load capacity (23 °C / 50% relative humidity Humidity) | after 7 days |
| 8 | Rel. moisture | < 75% during the entire laying and curing phase |

| Technical specifications | | |
|--------------------------|-------------------------------------|--------------------------------|
| Cured material | | |
| 1 | Adhesive strength (DIN ISO 4624) | > 1.5N/mm ² |
| 2 | Abrasion resistance (DIN 53754) | Approx 20–30 mg / 1,000 cycles |

Protective measures

For information on handling the product, please refer to the valid safety data sheet and the chemical industry guidelines for handling coating materials (M004/M023). Suitable protective clothing and safety goggles must be worn during processing.

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

Important note

The mixture of RINOL PU-TS687 (A+B) has a pot life of approx. 4 hours at the specified processing temperature. Please only mix as much RINOL PU-TS687 as can be used within this time.

At higher temperatures, the pot life of RINOL PU-TS687 (A+B) is significantly

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TRANSPARENT POLYURETHANE TOP COAT

RINOL

reduced, and if the mixture components are cold, the mixing process cannot be carried out thoroughly enough.

Do not seal containers with mixed RINOL PU-TS687 tightly, as reaction gases are produced when component A and component B react.

Ensure adequate ventilation during application and drying, but avoid drafts and strong sunlight and protect the surface from dust. Please turn off the underfloor heating beforehand.

- At temperatures above 25 °C, the accelerated reaction can lead to visible roller marks—even after curing.
- In addition to floor and room temperature, humidity is also very important for processing and curing. Due to their surface structure, matte sealants generally need to be cleaned more often than glossy sealants.
- High humidity (especially in combination with low temperatures) delays the curing process and thus prolongs the time until recoating. After application, the material must be protected from direct contact with water. (23 °C / 50% relative humidity)
- Colored products (e.g. Hair dye, colored wound disinfectants) and plasticizer migration (e.g. rubber) lead to irreversible discoloration of the sealing layer. If object-specific resistance to hand and instrument disinfectants must be guaranteed, we recommend conducting suitable preliminary tests with the preparations used on site. If in doubt, please contact our technical application advisors in advance. The seal may be damaged by mechanical influences during use. This leads to scratches and, in severe cases, accelerated wear. Signs of wear may necessitate partial or complete renewal of the seal.
- To avoid visible build-up zones during partial renovations, always apply RINOL PU-TS687 precisely from the boundary line (weld seam, joint edge) to the boundary line. Since differences in gloss levels between renovated and untreated areas cannot be ruled out, it is always recommended to renovate closed areas (e.g. individual rooms or separate areas of use). Natural color changes are possible and do not constitute a quality defect.
- When using chairs with casters, the casters must comply with standard 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 contact with aggressive solvents and/or disinfectants can cause changes to the surface. Immediate removal is recommended.

Please note that only the current version of the technical data sheet is valid and replaces all older data sheets.

Legal notices:

Due to the different materials, substrates, and varying working conditions, RCR Flooring Products cannot guarantee the result of the work and cannot accept any liability for any reason and/or legal relationship. In addition, the current General Terms and Conditions of RCR Flooring Products Italia S.r.l. apply, which can be requested from us or viewed and printed at www.rinol.com. We expressly reserve the right to make changes to product specifications.

CE marking:

DIN EN 13813 "Screed mortars, screed mixtures, and screeds—Properties and requirements" (January 2003) specifies requirements for screed mortars for indoor use.

Synthetic resin coatings and sealants also fall under this standard. Products that comply with the above standard must bear the CE marking.

| | |
|---|--|
|  RCR Flooring Products Italia S.r.l. Via V.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 (Designs according to technical data sheets) | |
| Fire behavior: | NPD ² |
| Water permeability: | NPD ² |
| Wear resistance (abrasion resistance): | NPD ² |
| Tensile strength (adhesion): | 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

Floor systems that are subject to mechanical loads 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." The relevant data sheet can be requested if required.

EU Regulation 2004/42 (Decopaint Directive):

The maximum VOC content permitted under EU Regulation 2004/42 (product category A/j) is 140 g/l in ready-to-use condition (limit value 2010). The maximum content of RINOL PU-TS687 in ready-to-use condition is ≤ 85 g/l VOC.

GIS code: PU 10

Further information on the GIS code can be found online at Wings at <https://www.wingisonline.de>.



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