RINOL*PU-TS688*

TRANSPARENT POLYURETHANE TOP COAT

1 General data

Product description

RINOL PU-TS688 is a special, transparent, UV-resistant, low-emission, 2-component polyurethane sealer for the protection of elastic floor coverings based on polyurethane and epoxy resin.

Gloss level: glossy, matt, extra-matt.

RINOL PU-TS688 forms an extremely hard-wearing film with excellent elasticity, adhesion and increased chemical resistance, e.g. against colouring chemicals and plasticiser migration as well as colourless chemicals and disinfectants. Excellent levelling, reliable application. Reduces dirt adhesion and maintenance effort. For professional users only.

Application

Floor coverings made of polyurethane and epoxy resin with a smooth or slightly textured surface, if agreed and recommended with 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 Laying instructions

Substrate preparation

The flooring surface must be clean and dry, free of dust, grease, oil, wax and care product residues. In the case of flooring qualities with removable factory care finish, this must be completely removed.

Ensure that no substances containing silicone or other substances that may interfere with the reaction come into contact with RINOL PU-TS688 before and during the curing phase.

Application

Shake containers A + B well. Pour Comp. B into Comp. A and mix both components immediately by shaking thoroughly. If partial quantities are to be mixed, always mix comp. A and comp. B in a ratio of 5:1, with comp. B being added to comp. A. Room, covering and processing temperature 18-25°C and relative humidity 40-65%. Allow the RINOL PU-TS688 sealing mixture to rest for 10 minutes.

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 repaired immediately. Spread RINOL PU-TS688 with the roller in maximum 1 metre wide strips across the incidence of light (i.e. parallel to the window surface) and then roll out evenly in the direction of the incidence of light. Avoid the formation of puddles. After sufficient drying time (min. 2 hours, but on the same day) for absorbent coverings, apply the sealing compound again.

RINOL PU-TS688 is rolled out evenly with a dry paint roller (10 mm long). The surface is re-rolled in a crosswise motion. The connection times must be kept short.

Maintenance

In order 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-TS688.

Technical data		
Liquid mixture (A+B)		
1	Container size (2-component container)	glossy: 5 Kg matt: 6,245 Kg extra-matt: 5 Kg
2	Colours	Transparent: glossy, matt or extra-matt
3	Shelf life / storage	6 months at 5 - 30°C, in any case (also during transport) frost-free, protect from direct sunlight

Technical data		
Liquid mixture (A+B)		
1	Processing time (20°C)	approx. 2 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. 50 - 100 g/m²/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	< 75% during the entire laying and curing phase

Technical data		
Cured material		
1	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 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.

Important note

The mixture of RINOL PU-TS688 (A+B) has a pot life of approx. 4 hours at the

RCR Flooring Products
RCR Flooring Products Italia S.r.l.
Via V.Chiarugi 76/U
I - 45100 Rovigo
Tel.: +39 (0) 425 411 200
Fax: +39 (0) 425 411 222
info.italy@rcrif.com
www.rinol.com

prescribed processing temperature. Only mix as much RINOL PU-TS688 as can be processed within this period.

At higher temperatures of RINOL PU-TS688 (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-TS688 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.

- At temperatures above 25°C, the accelerated reaction may result in visible roll 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. (23°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 renovation, always apply RINOL PU-TS688 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:

EDue to the different materials, substrates and deviating working conditions, RCR Flooring Products cannot guarantee a work result or accept any liability 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 sealants are also covered by this standard. Products that comply with the above standard must be labelled with the CE mark.

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 indoor 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 (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

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 A / j) is 140g/l when ready for use (limit 2010). The maximum content of RINOL PU TS688 in ready-to-use condition is ≤ 85g/l VOC.

GIS code: PU 10

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

RCR Flooring Products
RCR Flooring Products Italia S.r.l. | Via V.Chiarugi 76/U, I - 45100 Rovigo | Tel.: +39 (0) 425 411 200, Fax: +39 (0) 425 411 222 | info.italy@rcrif.com, www.rinol.com