

1 General data

Product description and application

RINOLCRETE PU-C570 is a coloured, ready-to-use 4-component thixotropic polyurethane-cement mortar based on high-quality polyurethane resin and mineral aggregates. It is intended for the production of skirtings, coves and vertical applications in general, up to 9 mm thickness in a single application.

The product offers very good chemical resistance to a wide range of detergents, disinfectants, acids, solvents and other chemicals, as well as high impact and abrasion resistance combined with excellent hygienic properties. The cured surface does not support bacterial or mould growth.

The unique formulation of RINOLCRETE PU-C570 ensures exceptional durability even when the coating is exposed to frequent thermal shock and temperatures up to 120°C. It is also suitable for freezer temperatures down to -40°C.

2 Installation instructions

Substrate preparation

RINOLCRETE PU-C570 is normally applied immediately after application of the primer RINOLCRETE PU-P270, while the primer is still wet. The open time of the primer is approx. 1 hour at 20°C. After this time, the primer must not be recoated directly. If the open time is exceeded, the primer must be allowed to cure fully, typically for 12 hours at 20°C. Once fully cured, the surface must be reprimed and RINOLCRETE PU-C570 applied as normal.

If the interval between coats exceeds 48 hours, or if condensation or water affects the surface, the surface must be fully abraded before applying the next primer coat.

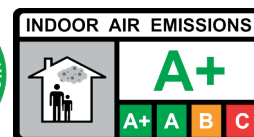
Care must be taken to ensure that no silicone-containing or other reaction-interfering substances come into contact with RINOLCRETE PU-C570 before and during the curing phase.

Processing

Before application, the material must be acclimatised to at least ambient temperature (room and floor temperature). The ideal temperature range is 16–22°C; this is also the preferred range for mixing, installation and curing. The product is supplied in pre-dosed multi-component packaging. Only complete units may be mixed.

Shake the resin component RINOLCRETE Comp. A (1.1 kg) and pour it completely into a clean container. Add the liquid pigment RINOLCRETE Comp. D and mix briefly using an electric stirrer with helical attachment. Add the hardener RINOLCRETE Comp. B (1.1 kg) and mix again for approx. 30 seconds. After gradual addition of the filler RINOLCRETE PU-C570 Comp. C, homogenise the mixture again for at least 2 minutes at 1500–2000 rpm. It must be ensured that the filler is fully wetted by the liquid components and that the mixture is homogeneous. Air entrapment during mixing must be avoided.

RINOLCRETE PU-C570 is applied using a coving trowel or smooth metal trowel onto the surface previously primed with RINOLCRETE PU-P270.



Once hardened, and within 24 hours at 20°C, the mortar surface may optionally be top-coated with RINOLCRETE PU-C565, in accordance with the relevant product data sheet, in order to improve cleanability and final appearance.

Product information		
1	Packaging size Component A (Resin) Component B (Hardener) Component C (Filler) Component D (Pigment)	12,5 Kg 1,1 Kg 1,1 Kg 10 Kg 0,3 Kg
2	Colours	See RINOLCRETE brochure
3	Shelf life / Storage	9 months at 5 - 30 °C, protect from freezing and direct sunlight, also during transport

Technical data		
liquid mixture (A+B+C+D)		
1	Density (20°C)	approx. 2,1 g/cm ³
2	Processing time (20°C)	approx. 10 minutes
3	Processing / material Room and ambient temperature	12 - 25 °C (min. 3 °C above the dew point, also during installation and curing)
4	Material consumption (depends on the substrate, among other things)	approx. 2.100 g/m ² /mm layer thickness
5	Possible thickness (Vertical)	from 4 to 9 mm
6	Material consumption (Coves)	approx. 2100 g/cm ³
7	Next coating (20°C)	within 12 - 24 hrs.
8	full resistance mechanical (20°C) chemical (20°C)	after 7 days after 28 days
9	Rel. Humidity	Between 40 - 80 % during the entire laying and curing phase

Technical data		
Cured material Mixture		
1	Adhesive strength (DIN ISO 4624)	> 1,5 N/mm ² (concrete failure)

Technical data		
Cured material Mixture		
2	Flexural strength (DIN EN 196 / ASTM C 190)	16 N/mm ²
3	Compressive strength (DIN EN 196 / ASTM C 109)	52 N/mm ²
4	Tensile strength (ISO 527 / ASTM D638)	7 N/mm ²
5	Coefficient of thermal expansion (DIN EN 1770 / ASTM C531)	4 x 10 ⁻⁵ °C ⁻¹
6	Water absorption (CP.BM 2/67/2)	0 ml
7	Temperature resistance	-40°C +120°C with a thickness of 9mm

Re-coating

If re-coating is carried out within 24 hours after application, the coating surface must be carefully prepared by vacuum shot blasting or diamond grinding. On fully broadcast surfaces, surface preparation is not necessary. Before re-coating, all excess broadcast aggregates must be completely removed.

Health and safety measures

For information on handling the product, please refer to the latest and valid material safety data sheet and the chemical industry guidelines on handling coating materials (M004/M023). Wear suitable protective clothing and goggles during application. Clean tools immediately after finishing work with RINOL DE-X10.

Skin contact with liquid resins can lead to health impairments and allergies.

Once properly cured, the product is physiologically nonhazardous.

Maintenance

To preserve the properties of the floor covering in the long term, regular maintenance is recommended. Please refer to the RINOLCRETE maintenance instructions.

The floor can be cleaned with most detergents and disinfectant solutions normally used in the food industry, using mechanical cleaning machines, high-pressure water cleaners and gentle steam jet cleaners.

Note

The technical data for the Company's products and systems have been compiled with due care. However, any 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 control of the Company. It is the responsibility of the customer to determine whether the products are suitable for the particular application and whether the conditions of use are appropriate for the particular product. No liability can therefore be derived from the product data sheet.

Please note that only the latest version of the data sheet is valid and replaces all previous versions. 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 datasheets may differ in different languages/countries. For further information please visit our website at www.rinol.com.

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

Important note

In addition to the ambient temperature, the substrate temperature is of decisive importance. Chemical reactions generally proceed more slowly at low temperatures. At low temperatures, the material working time and the complete curing time of the coating are prolonged. Low temperatures increase material viscosity and therefore material consumption. At higher temperatures, chemical reactions proceed more quickly, thereby reducing the material working time, re-coating time and complete curing time of the coating.

The product has a surface texture typical of hand-laid coatings. Slight unevenness, colour differences and visible trowel or roller marks cannot be avoided due to the raw materials and the application method. The surface appearance and colour of the cove and the floor are not identical. UV exposure, although it does not affect the performance of the coating, will result in yellowing of the floor, which is most apparent in light colours.

The coating must be protected during application, curing and throughout its service life from moisture on the reverse side and from water pressure below the coating.

The application examples are based on our best knowledge and experience. Testing on site prior to installation is always recommended.

Legal notice

Due to the different materials, substrates and deviating working conditions, no guarantee of a work result or liability for whatever reason and / or legal relationship can be assumed by RCR Flooring Products Italia S.r.l. or RCR Flooring Products GmbH. In all other respects, the respective latest general terms and conditions of RCR Flooring Products Italia S.r.l. or RCR Flooring Products GmbH shall apply, which can be requested from us or viewed and printed out at www.rinol.com up to date. We expressly reserve the right to make changes to the product specifications.

CE - marking

DIN EN 13813 "Screed material and floor screeds - Screed materials - Properties 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 CE marked.



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EN 13813

1119-CPR-0833
09
EN 1504-2

Synthetic resin screed/coating for interior use in buildings
(structures according to technical data sheets)

Fire behaviour:	Bfl-s1
Release of corrosive substances:	SR
Water permeability:	NPD ²
Abrasion Resistance:	NPD ²
Adhesive tensile strength (bond):	B > 2,0
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 determined

CE marking: 1504-2

Flooring systems that are subject to mechanical stresses and whose products comply with DIN EN 1504-2 must also comply with the requirement 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 leaflet can be requested.

EU Regulation 2004/42 (Decopaint Directive):

The maximum content of VOCs (product category IIA / j type sb) allowed in EU Regulation 2004/42 is 500g/l in the ready-to-use state (Limit 2010). The maximum content of RINOLCRETE PU-C570 in ready-to-use condition is <500g/l VOC.

GIS Code: PU 40

For further information on the Giscode, please contact Wingis online at <https://wingisonline.de>