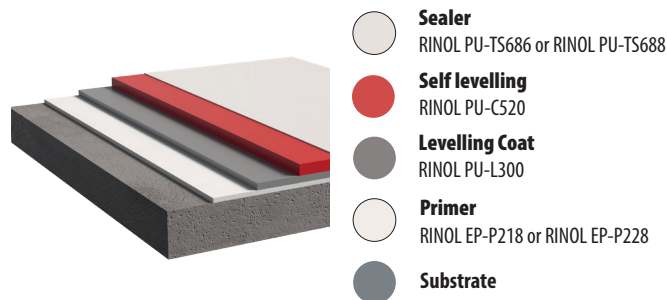


## 1. System description

RINOL COMFORT is a four-layer polyurethane floor system for light to medium-duty and pedestrian areas.

It delivers seamless durability with optional slip resistance and a soft, comfortable feel underfoot, reducing fatigue during long periods of standing.

## 2. System composition



## 3. Areas of application

The RINOL COMFORT system is specifically designed to be applied in various types of industrial environments, adapting to the needs of several sectors, including:

- Light to medium duty use for industrial floors
- Hospitals
- Exhibition centers
- Schools & Universities
- Hotels & Restaurants
- Residential

## 4. Properties

- Comfortable feel underfoot
- Low odour during application
- Durable and long lasting
- Hygienic and impervious
- Smooth or non-slip finish
- Jointless
- Good chemical resistance

## 5. Certifications

The individual products within RINOL COMFORT system are certified to meet high quality standards:

Synthetic resin screed material according to EN 13813:2002

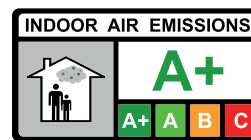
Coating for surface protection of concrete according to EN 1504-2:2004

DIN 51130 Determination of the anti-slip property

**Indoor Air Comfort Gold** certifies very low VOC emissions, meeting stringent worldwide indoor air quality standards such as:

**AgBB:** Complies with the criteria of the German Committee for Health-Related Evaluation of Building Products (AgBB), ensuring low VOC emissions and suitability for use in environments where indoor air quality is a priority, such as residential and commercial spaces.

**A+ French VOC Emissions:** Awarded an A+ rating, demonstrating very low VOC emissions, suitable for applications focused on indoor air quality, such as



schools and healthcare facilities.

**BREEAM:** Supports compliance with BREEAM criteria, contributing to sustainable building practices and environmental performance.

**LEED:** Compatible with LEED standards, helping projects earn credits for indoor environmental quality through low VOC content and durability.

## 6. Technical data

The RINOL COMFORT system provides detailed technical data, including physical and mechanical properties:

Technical Data		
1	Thickness	3 - 4 mm
2	Maximum service temperature	60 °C
3	Compressive strength ( DIN EN 196 / ASTM C 109 )	30 N/mm <sup>2</sup>
4	Flexural strength ( DIN EN 196 / ASTM C 190 )	10 N/mm <sup>2</sup>
5	Adhesive strength ( DIN ISO 4624 )	> 1,5 N/mm <sup>2</sup>
6	Abrasion resistance (Taber CS10 wheel) ( DIN 53754 / ASTM D 1044 )	20-30 mg / 1000 cycles
7	Shore D hardness ( DIN 53505 / ASTM D 2240 )	82
8	Colour stability (scale 1-8, best=8) ( DIN EN ISO 877 )	8

## 7. Chemical Resistance

The RINOL COMFORT floors, under ambient temperature conditions, demonstrate resistance to:

Weak mineral acids, such as hydrochloric, nitric, phosphoric, and sulfuric acids.

Alkaline substances, including sodium hydroxide up to 50% concentration.

Standard cleaning agents used for floor maintenance.

Sugars, even with repeated contacts.

Mineral oils, diesel, kerosene, and gasoline.

For further information, please refer to the Rinol table of chemical resistance

## 8. Available colours

The RINOL COMFORT system is available in a wide range of RAL and NCS colours, offering a broad selection to meet the aesthetic preferences of any project.

## 9. Application Instructions

### 9.1. Substrates

9.1.1 Suitable substrates are concrete, polymer modified concrete or screeds, anhydrite or magnesite.

9.1.2 The substrate should have a minimum tensile strength of 1.5 N/mm<sup>2</sup> and compressive strength of 25 N/mm<sup>2</sup> measured to an approved national standard.

9.1.3 The substrate should be visibly dry. For concrete and polymer modified concrete, the moisture content should not exceed 4% by weight when measured according to a recognised standard. RINOL range includes primers that can optionally be used when the static moisture content reaches 6%, measured using CM (calcium carbide) Method. For anhydrite or magnesite substrates, moisture contents up to 0.8% by weight are acceptable.

9.1.4 The substrate must be clean and free from dust and loose particles. All traces of contaminants such as oils, fats, greases, paint residues, chemicals, algae and laitance should be removed.

### 9.2. Preparation

9.2.1 The preferred method of surface preparation is vacuum blasting. Other methods such as scabbling, grit blasting or grinding may be used but are generally less satisfactory.

### 9.3. Priming

9.3.1 The primer is mixed using an electric mixer, taking care to avoid the inclusion of air. When homogeneous, the mixture is poured onto the prepared surface and spread using a Kaub spatula or rubber trowel. Material consumption is 250 - 500 g/m<sup>2</sup> depending on the roughness of the substrate.

9.3.2 Dry quartz sand (RINOL QS10 or QS20) is scattered on the wet primer at a rate of 800 - 1200 g/m<sup>2</sup> to ensure good adhesion between the coats.

9.3.3 RINOL primers must not be applied when the temperature falls or is expected to fall within 3 °C of the dew point.

### 9.4. Application of the levelling layer

9.4.1 The RINOL PU-L300 sealer should be applied when the primer has hardened but not completely cured. This will normally be after 12 - 15 hours.

9.4.2 Prior to the application of the sealer, remove excess silica sand and sand and vacuum clean the primer.

9.4.3 The two components of RINOL PU-L300 should be mixed using an electric mixer, taking care to avoid the inclusion of air. When the mixture is homogeneous, add a mixture of dry quartz sands (1 part RINOL QS-10, 3 parts RINOL QS-20) at a ratio of 20 parts sand to 100 parts resin and mix again until homogeneous. This mixture is then poured onto the primed surface and spread with a spatula, trowel or scraper at a rate of 800 - 1200 g/m<sup>2</sup>.

9.4.4 RINOL PU-L300 must not be applied when the temperature falls or is expected to fall within 3 °C of the dew point.

### 9.5. Application of the Self levelling

9.5.1 The topcoat RINOL PU-C520 should be applied when the levelling coat has hardened but not completely cured. This will normally be after 12 - 15 hours.

9.5.2 Mix the two components of the topcoat with an electric mixer, taking care to avoid the inclusion of air. When the mixture is homogeneous, pour it on the surface of the levelling layer and spread it with a serrated spatula. The material consumption should be approximately 1800-2500 g/m<sup>2</sup>. The teeth of the notched trowel must be changed regularly to ensure uniform thickness.

9.5.3 RINOL PU-C520 must not be applied when the temperature falls or is expected to fall within 3 °C of the dew point.

### 9.6. Application of the sealer

9.6.1 The sealer RINOL PU-TS686 should be applied when the primer is hardened but not completely cured. This will normally be after 12 - 15 hours.

9.6.2 The two components of RINOL PU-TS686 should be mixed using an electric mixer, taking care to avoid the inclusion of air. When homogeneous, pour the mixture onto the primed surface and apply with a 10-12mm hair roller. The material consumption is approximately 80 - 100 g/m<sup>2</sup>.

9.6.3 RINOL PU-TS686 must not be applied when the temperature falls or is expected to fall within 3 °C of the dew point.

9.6.4 At 20 °C RINOL COMFORT can be walked on after 18 - 24 hours and is fully cured after 7 days and full chemical resistant after 28 days.

## 10. Specification clauses for RINOL COMFORT

All products must be applied and cured at temperatures between 15 and 25°C and relative humidity <80%.

The primer shall be RINOL EP-P218 or RINOL EP-P228, applied at a rate of 250 - 500 g/m<sup>2</sup> to ensure complete sealing of the substrate surface.

Dry quartz sand (RINOL QS-20) shall be broadcast into the wet primer at a rate of 800 - 1200 g/m<sup>2</sup>.

The levelling layer shall be RINOL PU-L300 filled with dry quartz sand at a ratio of 20 parts sand to 100 parts resin. The quartz sand shall be 1 part RINOL QS-10, 3 parts RINOL QS-20. The leveling coat is applied at a rate of 800 - 1200 g/m<sup>2</sup>.

Apply the self levelling top coat of RINOL PU-C520 in a thickness of approx. 1-1,5 mm.

As a transparent sealer, RINOL PU-TS686 is applied at a rate of approx. 80-100 g/m<sup>2</sup> per coat, using a medium hair roller as appropriate.

## 11. Maintenance

The RINOL COMFORT system is easy to maintain and clean. To ensure the system's longevity and performance, it is essential to follow the provided maintenance instructions. This may include regular cleaning with suitable products to remove dirt and residues, periodic inspection of the floor for signs of wear, and repair or replacement of damaged areas if necessary. With proper maintenance, the RINOL COMFORT system can provide many years of reliable service.

## 12. Safety

Safety is a priority at RCR Flooring Products Italia S.r.l. We provide information on safety and precautions during the application of the RINOL systems. This may include the use of personal protective equipment during application, adequate ventilation, prevention of exposure to chemicals, and proper disposal of product waste. It is important to follow all safety guidelines to ensure a safe working environment and maintain the integrity of the systems.

## 13. Health and Safety Measures

Consult the latest valid Material Safety Data Sheet (MSDS) for the products that are part of the system and the Chemical Industry Guidelines on the

Handling of Coating Materials (M004/M023) for information on the handling of the products. Wear suitable protective clothing such as gloves and goggles during application.

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

Once cured properly, the product is not hazardous.

#### 14. Customer Service

At RCR Flooring Products Italia S.r.l., we pride ourselves on providing exceptional customer service. Our team of experts are on hand to answer your questions, provide technical advice and help you choose the RINOL systems that best suit your needs. We also provide application information to ensure that our systems are installed correctly and deliver optimum performance..

#### 15. Legal notice

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](http://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..

#### 16. CE Marking

The individual products that make up the system are certified according to DIN EN 13813 "Screed materials and floor screeds - Screed materials - Properties and requirements" (January 2003) and EN 1504-2. These standards specify the requirements for screed mortars used in internal floor constructions. Resin coatings and sealants are also covered by these standards. Products complying with the mentioned standards must have the CE mark.