

RINOL STANDARD

TWO-LAYER EPOXY SYSTEM FOR INDUSTRIAL FLOORS

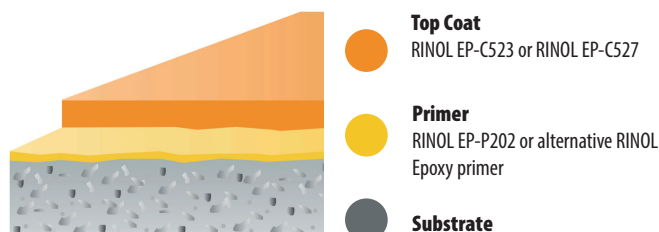
RINOL



1. System description

RINOL STANDARD is a two-layer, epoxy coating system ideal for medium to heavy duty industrial floors. It offers seamless finishes, durability, smooth and easy to clean surface.

2. System composition



3. Areas of application

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

- Medium to heavy duty use for industrial floors
- High bay warehouses
- Other warehouses and storage areas
- Production facilities
- Laboratories
- Supermarkets
- Aircraft hangars

4. Properties

- Low odour during application
- Durable and long lasting
- Hygienic and impervious
- Meets EU requirements for food premises
- Smooth finish
- Can be laid to superflat tolerances
- Jointless
- Good chemical resistance

5. Certifications

The individual products within RINOL STANDARD 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

RINOL EP C523: Cleanroom suitable material, Fraunhofer IPA

RINOL EP-C523: DIN EN 13529 Resistance against severe chemical attack by Skydrol aviation hydraulic fluid.

ISEGA compliance for use as flooring in facilities where food is treated and processed

6. Technical data

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

Technical Data		
1	Thickness	1 - 2 mm
2	Maximum service temperature	60 °C
3	Compressive strength (DIN EN 196 / ASTM C 109)	65 N/mm ²
4	Flexural strength (DIN EN 196 / ASTM C 190)	40 N/mm ²
5	Adhesive strength (DIN ISO 4624)	> 1,5 N/mm ²
6	Abrasion resistance (Taber CS10 wheel) (DIN 53754 / ASTM D 1044)	80mg / 1000 cycles
7	Shore D hardness (DIN 53505 / ASTM D 2240)	80
8	Colour stability (scale 1-8, best=8) (DIN EN ISO 877)	6

7. Chemical Resistance

The RINOL STANDARD 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.

8. Available colours

The RINOL STANDARD 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/mm² and compressive strength of 25 N/mm² 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/m² depending on the roughness of the substrate.

9.3.2 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 topcoat

9.4.1 The topcoat RINOL EP-C523 or RINOL EP-C527 should be applied when the primer has hardened but not completely cured. This will normally be after 12 - 15 hours.

9.4.2 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 1800-2000 g/m² for self levelling surface. The teeth of the notched trowel must be changed regularly to ensure uniform thickness.

9.4.3 RINOL EP-C523 or RINOL EP-C527 must not be applied when the temperature falls or is expected to fall within 3 °C of the dew point.

9.4.4 At 20 °C RINOL STANDARD can be walked on after 18 to 24 hours, reaches full mechanical resistance after 7 days and full chemical resistance after 28 days.

10. Specification clauses for RINOL STANDARD

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

The primer shall be RINOL EP-P202 or alternative RINOL Epoxy primer, applied at a rate of 250 - 500 g/m² to ensure complete sealing of the substrate surface. The primer surface shouldn't be scattered in excess with sand.

Apply the top coat of RINOL EP-C523 or RINOL EP-C527 in a thickness of approx. 1 mm (1800-2000 g/m²).

11. Maintenance

The RINOL STANDARD 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 STANDARD 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.

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.