RINOL*CRETE STANDARD*

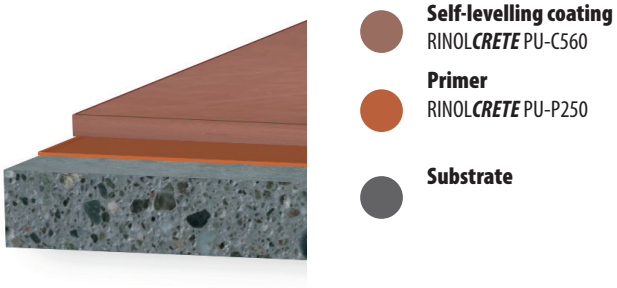
SELF-LEVELLING POLYURETHANE-CEMENT MORTAR SYSTEM

1. Product Description

The RINOL***CRETE*** STANDARD system, is a top quality self-levelling polyurethane cement mortar based floor coating designed for production, packaging and storage areas where liquids are occasionally spilt and where medium to high mechanical loads are present. It is spill resistant and works effectively over a temperature range of -25°C to +90°C in thicknesses of 3 to 6 mm. This system offers excellent impact resistance and is uniquely designed to withstand temperature fluctuations while preventing bacterial growth. The smooth surface is easy to clean, does not generate dust and is resistant to almost all chemicals, making it an ideal choice for industrial and commercial environments. Its durability and ability to withstand a wide range of conditions make it the preferred solution for industries seeking the ultimate in performance and safety.

2. System Composition

RINOL***CRETE*** STANDARD is a comprehensive flooring system that begins with the RINOL***CRETE*** PU-P250 Primer, ensuring impeccable adhesion. This is complemented by the RINOL***CRETE*** PU-C560 self leveling, which forms the core of the system, providing resilience and durability. Together, these components offer a balanced blend of strength and performance, making the system ideal for demanding environments.



3. Areas of Application

The RINOL***CRETE*** STANDARD system is suitable for a variety of environments, including:

- Industrial kitchens: The system is stain-resistant and easy to clean, making it ideal for industrial kitchens where hygiene is essential.
- Food processing plants: With its resistance to chemicals, low and high temperatures, it's an ideal solution for food processing environments that require a durable floor.
- Warehouses: Its resistance to abrasion and impact makes it suitable for warehouses where heavy loads are handled.
- Laboratories: Its resistance to chemicals and ease of cleaning make it ideal for laboratories where chemical substances are handled.
- Packing rooms: Its slip resistance and durability make it perfect for packing rooms where safety is essential.
- Dry and wet product manufacturing sector: The system's resilience and adaptability make it a top choice for sectors involved in both dry and wet product manufacturing.

4. Properties

- Resistant and solid
- Good impact resistance
- Resistant to temperature variations
- Prevents bacterial growth
- Smooth surface, easy to clean
- No dust generation
- Resistant to almost all chemicals

5. Certifications

All RINOL***CRETE*** systems are EUROFINS INDOOR AIR COMFORT GOLD, demonstrating their high quality and performance. This top level certification ensures that the product's emissions meet the criteria of many voluntary specifications issued by the main eco-labels, EU specifications and requirements for sustainable building certification (LEED, BREEAM, etc.), including low air emissions, slip resistance, chemical resistance and fire resistance, among others relevant to their specific use. Please contact us for a full list of our certifications.

6. Technical Data

We provide detailed technical data on the system, including its physical and mechanical properties.

Technical data		
1	Compressive strength (DIN EN 196 / ASTM C 109)	65 N/mm^2
2	Flexural strength (DIN EN 196 / ASTM C 190)	16,0 N/mm^2
3	Coefficient of thermal expansion (DIN EN 1770 / ASTM C 531)	2.1 x 10^{-5}/°C
4	Thermal conductivity (DIN 52612 / BS 874)	0,84 W /m°C
5	Water absorption (CP.BM 2/67/2)	0 ml
6	Abrasion resistance Roue Taber CS10/1000 cycles - 1kg (DIN 53 754 / ASTM D 1044)	959 mg
7	Slip resistance (DIN 53505 / ASTM D 2240)	R9 - R10
8	Thermal resistance	-25°C +90°C with a thickness of 6 mm

7. Self-levelling

The RINOL***CRETE*** STANDARD system has exceptional self-levelling properties.

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

COMPANY WITH MANAGEMENT SYSTEM CERTIFIED BY DNV
ISO 9001 • ISO 14001
ISO 45001

It's designed to set to a smooth and even surface on application, providing a flawless aesthetic finish. Whether subjected to heavy machinery or foot traffic, the uniformity of the surface ensures there are no weak spots or uneven areas. What's more, it is slip-resistant, improving safety in any environment. Its smooth surface makes it easy to clean, making it the preferred choice for industries that value aesthetics, functionality and safety in their flooring solutions.

8. Available Colors

The RINOL***CRETE*** STANDARD system is available in a variety of colors to suit the aesthetic needs of any installation.

- Light Grey:
- Mid Grey:
- Beige:
- Red:
- Green:
- Yellow:
- Blue:

9. Application Recommendation

The RINOL***CRETE*** systems should be applied by trained professionals. This process includes surface preparation, which may involve cleaning, sanding, or shot blasting the existing surface to ensure optimal adhesion. Then, the system components are mixed according to the product specifications and applied using appropriate techniques to ensure uniform coverage.
Please note that curing times can vary depending on environmental conditions and the specific product. Generally, the system will be ready for use 24-48 hours after application. However, for the surface to be completely operational and for the floor to exhibit all its properties, a curing period of several days may be required. This period can vary depending on the specific system and the conditions of the application site, including climate and other environmental factors.

10. Maintenance

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

11. Safety

Safety is our priority at RCR Flooring Products Italia S.r.l. We provide safety information and precautions that should be taken during the application of RINOL***CRETE*** 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 to maintain the integrity of the RINOL***CRETE*** systems.

12. 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.

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

Once properly cured, the product is non hazardous.

13. Sustainability

Our commitment to sustainability shines through our RINOL***CRETE*** systems. Central to this commitment is the EUROFINS INDOOR AIR COMFORT GOLD certification. This prestigious certification ensures low VOC emissions and encompasses several renowned environmental and health standards:

- **LEED**: Recognizes sustainable building design and operation.
- **BREEAM**: Assesses the environmental performance of buildings.
- **A+ French VOC Emission Rating**: Indicates minimal harmful substance emissions.
- **AgBB/ABG**: German standard for low VOC emissions.

By achieving the EUROFINS INDOOR AIR COMFORT GOLD certification, we demonstrate our unwavering dedication to environmental excellence and indoor air quality. For a complete list of standards we comply with under this certification, please contact us for more information.

14. Customer Service

At RCR Flooring Products Italia S.r.l., we pride ourselves on offering exceptional customer service. Our team of experts is available to answer your questions, provide technical advice, and help you select the appropriate RINOL***CRETE*** systems for your needs. We also offer training in the application of our systems to ensure they are installed correctly and provide optimal performance.

15. Warranty

We offer a warranty on the RINOL***CRETE*** systems, which covers manufacturing defects and ensures that the system meets our technical specifications. For more details about our warranty, please contact us.

16. 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

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

COMPANY WITH MANAGEMENT SYSTEM CERTIFIED BY DNV
ISO 9001 · ISO 14001
ISO 45001

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.

17. GIS Code

GIS Code: WGK PU 40. For further information on the Giscode, please contact Wingis online at https://wingisonline.de

18. CE - Marking

The individual products that make up the system are certified under the DIN EN 13813 "Screed material and floor screeds - Screed materials - Properties and requirements" (Jan.2003) and EN 1504-2 standards. These standards specify requirements for screed mortars used in indoor floor constructions. Synthetic resin coatings and sealers are also covered by these standards. Products that comply with the mentioned standards must be CE marked.

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

COMPANY WITH MANAGEMENT SYSTEM CERTIFIED BY DNV
ISO 9001 · ISO 14001
ISO 45001