

RINOL PARKING OS10 (II)

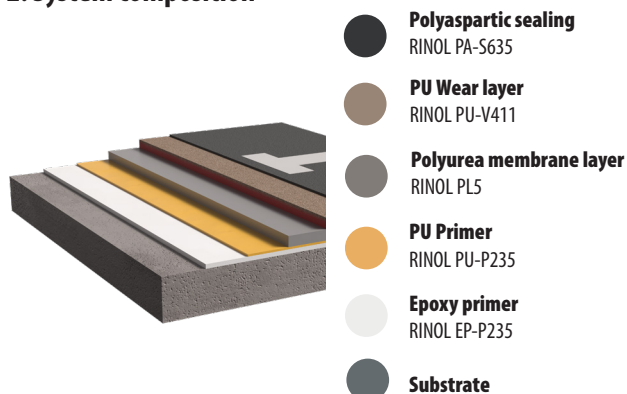
ELASTIC MULTI-STOREY CAR PARK COATING FOR EXPOSED PARKING DECKS

RINOL

1. System description

Four-layer elastic system for multi-story parking garages exposed to the elements. Protects against water, frost, and de-icing salts, absorbing the dynamic movements of concrete. Certified in accordance with the German Concrete Committee's guideline for the protection and repair of concrete structures (DIN EN 1504-2).

2. System composition



3. Properties

- Rapid application and fast return to service
- Low odor development during processing
- Protects concrete substrates from water ingress and surface contamination
- Crack bridging at low temperature
- Wear resistant
- Suitable for vehicular traffic
- Non-slip
- Seamless

4. Certifications

RINOL PARKING OS10 (II) is certified to meet high quality standards.

RINOL PARKING OS 10 (II) In accordance with the "Guideline for the Protection and Repair of Concrete Components" issued by the German Committee for Reinforced Concrete (DAfStb).

The individual products within RINOL PARKING OS10 (II) system are certified:

Synthetic resin screed material according to EN 13813:2002

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

5. Technical data

The RINOL PARKING OS10 (II) system provides detailed technical data, including physical and mechanical properties:

Technical Data		
1	Thickness	approx 6-7 mm
2	Crack bridging (EN 1062-7 / ZTV BEL B3)	Classe IV T+V (B4.2) > 0,25 – 0,4 mm (-20°C)
3	Adhesive strength (DIN ISO 4624)	> 1,5 N/mm ²
4	Impact resistance (DIN EN ISO 6272-1)	> 4 Nm
5	Abrasion resistance (Taber H22 wheel/1000g) (DIN 53754 / ASTM D4060)	1375 mg /1000 cycles
6	Water vapor diffusion resistance (EN ISO 7783-1 / -2)	Classe III > 175 m
7	Water absorption (DIN EN 1062-3)	< 0,01 kg/(m ² · h0,5)
8	Chemical resistance (DIN EN 13529) DIBt n. 1 (Fuel) DIBt n. 3 (Oil) DIBt n. 10 (Acid)	Pass Pass Pass
9	Slip resistance (DIN EN 13036-4)	> 60 SKT
10	Slip resistance (DIN 51130)	R11
11	Colour stability (scale 1-8, best=8) (DIN EN ISO 877)	8

6. Chemical Resistance

The RINOL PARKING OS10 (II) 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.

7. Available colours

The RINOL PARKING OS10 (II) system is available in a wide range of RAL and NCS colours, offering a broad selection to meet the aesthetic preferences of



any project.

8. Application Instructions

8.1. Substrates

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

8.1.2 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.

8.1.3 The substrate should be visibly dry. For concrete and polymer modified concrete, the moisture content should not exceed 6% by weight when measured according to CM (calcium carbide) Method. For anhydrite or magnesite substrates, moisture contents up to 0.8% by weight are acceptable.

8.1.4 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.

8.2. Preparation

8.2.1 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.

8.3. Priming

8.3.1 The epoxy primer RINOL EP-P235 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 300 - 500 g/m² depending on the roughness of the substrate.

8.3.2 Dry quartz sand RINOL QS20 is scattered on the wet primer at a rate of approx 800 g/m² to ensure slip resistance and good adhesion between the coats.

8.3.3 Prior to the application of the PU primer, remove any excess silica sand, then lightly sand and thoroughly vacuum-clean the epoxy primer surface. Apply RINOL PU-P235 using a short-hair roller at a consumption of approximately 50 g/m².

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

8.4. Application of the membrane

8.4.1 The RINOL PL5 membrane should be applied when the primer has hardened but not completely cured. This will normally be after 12 - 15 hours.

8.4.2 Prior to the application of the membrane, remove excess silica sand and sand and vacuum clean the primer.

8.4.3 The two components of RINOL PL5 are mixed and applied by spray using a suitable hot-applied polyurea pump machine at a consumption rate of approximately 2200 g/m².

8.4.4 RINOL PL5 must not be applied when the temperature falls or is expected to fall within 3 °C of the dew point.

8.5. Application of the wear layer

8.5.1 The RINOL PU-V435 wear layer should be applied when the primer has hardened but not completely cured. This will normally be after 12 - 15 hours.

8.5.2 The two components of RINOL PU-V435 should be mixed using an electric mixer, taking care to avoid the inclusion of air. The mixture is then poured onto the membrane surface and spread with a notched spatula, at a

rate of approx 1300 g/m².

8.5.3 Dry quartz sand RINOL QS20 is fully scattered on the wet wear layer to ensure slip resistance.

8.5.4 RINOL PU-V435 must not be applied when the temperature falls or is expected to fall within 3 °C of the dew point.

8.6. Application of the topcoat

8.6.1 The sealer RINOL PA-S635 should be applied when the levelling coat has hardened but not completely cured. This will normally be after 12 - 15 hours.

8.6.2 Before applying the top coat, remove excess quartz sand and sand and vacuum the surface.

8.6.3 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 rubber spatula or squeegee and back roll with a medium-short hair roller. The material consumption should be approximately 600-800 g/m².

8.6.4 The topcoat must not be applied when the temperature falls or is expected to fall within 3 °C of the dew point.

8.6.5 At 20 °C RINOL PARKING OS10 (II) can be walked on after 18 to 24 hours, reaches full mechanical resistance after 7 days and full chemical resistance after 28 days.

9. Specification clauses for RINOL PARKING OS10 (II)

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

The primers shall be RINOL EP-P235, applied at a rate of 300-500 g/m² and RINOL PU-P235, applied at approx. 50 g/m²

Dry quartz sand 0,8 Kg/m² of RINOL QS-20 shall be fully broadcast into the wet primer.

The membrane shall be RINOL PL5, spray applied at a rate of 2200 g/m².

The wear layer shall be RINOL PU-V435, applied at a rate of 1300 g/m².

Dry quartz sand (RINOL QS-20) shall be fully broadcast into the wet wear layer.

The topcoat shall be RINOL PA-S635, applied at a rate of 600-800 g/m².

10. Maintenance

The RINOL PARKING OS10 (II) 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 PARKING OS10 (II) system can provide many years of reliable service.

11. 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.

12. 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.

13. 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.

14. 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.

15. 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.