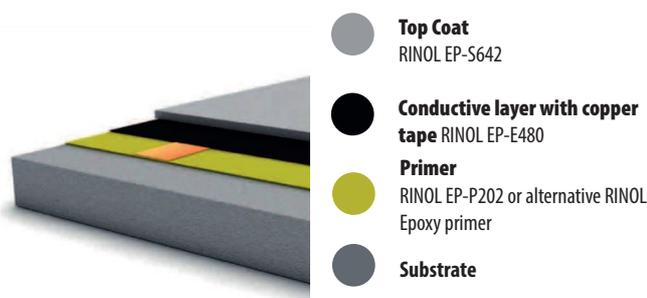




1. System description

RINOL SEALING THIXO AST is a three-layer, epoxy system that combines safe electrostatic discharge for sensitive environments and slip resistance surface. It is designed for light to medium-duty use.

2. System composition



- Top Coat**
RINOL EP-S642
- Conductive layer with copper tape** RINOL EP-E480
- Primer**
RINOL EP-P202 or alternative RINOL Epoxy primer
- Substrate**

3. Areas of application

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

- Light to medium use for industrial floors
- Storage areas
- Warehouses
- Garages and car parks
- Pedestrian areas

4. Properties

- Low odour during application
- Electrically conductive with minimal use of copper tape
- Durable and long lasting
- Anti-slip but easy to clean surface
- Dust free
- Jointless
- Good chemical resistance

5. Certifications

The individual products within RINOL SEALING THIXO AST 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 EN 1081 Determination of the electrical resistance
- DIN 51130 Determination of the anti-slip property

6. Technical data

The RINOL SEALING THIXO AST system provides detailed technical data, including physical and mechanical properties:

Technical Data		
1	Thickness	0,5 - 1 mm
2	Maximum service temperature	60 °C
3	Adhesive strength (DIN ISO 4624)	> 1,5 N/mm ²
4	Abrasion Resistance Taber (DIN 53754 /ASTM D 1044)	74mg / 1000 cycles
5	Shore D Hardness: (DIN 53505 /ASTM D 2240)	80
6	Resistance to earth (DIN EN 1081)	< 1 x 10 ⁶ Ω
7	Slip resistance (DIN 51130)	R9 - R10
8	Colour stability (scale 1-8, best=8) (DIN EN ISO 877)	6

7. Chemical Resistance

The RINOL SEALING THIXO AST 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 SEALING THIXO AST 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 spreader. Material consumption is 250 - 500 g/m² depending on the roughness of the substrate.

9.3.2 Don't scatter the primer layer with sand.

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 conductive layer

9.4.1 The conductive layer RINOL EP-E480 should be applied when the levelling layer is hardened but not completely cured. This will normally be after 12 - 15 hours.

9.4.2 If required, copper tapes are fixed to the surface of the levelling layer and covered with gauze strips.

9.4.3 Mix the two components of RINOL EP-E480 using an electric mixer, taking care to avoid the inclusion of air. This mixture is then poured onto the surface of the levelling layer and spread with a rubber spatula at a rate of 70 - 90 g/m². It should then be rolled with a short pile roller.

9.4.4 RINOL EP-E480 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 top coat

9.5.1 The conductive topcoat RINOL EP-S642 should be applied when the conductive layer has hardened but not cured. This will normally be after 8-10 hour

9.5.2 The two components of RINOL EP-S642 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 distribute it using a smooth trowel . The surface is then rerolled using a structured moltopen roller in order to achieve the typical orange-peel structure. The installer must wear shoes with a spiked sole in order to walk on the wet coating. The material consumption is approximately 600 - 800 g/m² , depending on the desired structure. To improve slip resistance, RINOL CARBOMIX can be added during mixing operation, at a rate of approx 5 to 10% in weight.

9.5.3 RINOL EP-S642 must not be applied when the temperature falls or is expected to fall within 3 °C of the dew point.

9.5.4 At 20 °C, RINOL SEALING THIXO AST can be walked on after 18 to 24 hours; full mechanical resistance is achieved after 7 days and full chemical resistance after 28 days.

10. Specification clauses for RINOL SEALING THIXO AST

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.

Copper strips are fixed to the primer layer.

The conductive layer shall be RINOL EP-E480, applied at a rate of 70 - 90 g/m².

The conductive topcoat shall be RINOL EP-S642, applied at a rate of 600 - 800 g/m².

11. Maintenance

The RINOL SEALING THIXO AST 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 SEALING THIXO AST 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

RINOL SEALING THIXO AST

ELECTRICALLY CONDUCTIVE COATING SYSTEM WITH ORANGE-PEEL SURFACE

RINOL

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.