

# RINOLEP-QC483AS

## WATER-BASED CONDUCTIVE EPOXY PRIMER

# RINOL



### 1 General Information

#### Product Description and Use

RINOL EP-QC483 AS is a ready-to-use, solvent-free, conductive, water-dispersed, two-component coating compound for producing the conductive primer for RINOL QCR AST systems, which are based on solvent-free epoxy resin.

Once mixed with the correct hardener, it acts as a conductive primer for RINOL QCR AST coating systems when used with the conductive base coat, RINOL EP QC 547.

#### RINOL Systems

RINOL EP-QC483 AS is the conductive primer for the RINOL systems:

- RINOLQCR AST
- RINOLQCR2 AST

### 2 Laying Instructions

#### Substrate preparation

RINOL EP-QC483 AS should be applied to a very flat, unsanded, closed-pore levelling layer. The conductive coating must be applied within 24 hours of the previous layer being applied. The substrate must be clean and free from release agents.

It is important to check whether the substrate is open-pore or porous, as bubbles and pores may form in the coating in these cases. The fabricator should check this and remedy it if necessary.

First, copper bands are adhered to the prepared substrate and connected to the equipotential bonding by an electrician.

Care should be taken to ensure that RINOL EP QC483 does not come into contact with silicone-containing materials or other substances that could interfere with the reaction, either before or during the curing phase.

#### Processing

The product is supplied in two-component containers at the exact mixing ratio.

Before processing, the material must be heated to at least ambient temperature (i.e. room and floor temperature).

Empty the A-component completely into the B-component, which should already have been stirred briefly, and homogenise the mixture using a mechanical stirring tool for approx. 2–3 minutes. Avoid including air in the stirring process. Pour the mixture into a different container and stir briefly again.

Pour RINOL-EP-QC483 AS onto the surface to be coated, spreading it very thinly using a rubber spreader (consumption: approx. 100–150 g/m<sup>2</sup>). The area is then rolled using a short-pile fabric roller. To achieve effective, uniform conductivity and perfect curing, the conductive layer must be distributed homogeneously. Under no circumstances should sand or floating agents be added to the mixture. Do not scatter silica sand over the conductive coating. The laying instructions for RINOL QCR AST must be followed.

#### Reworking

The next coating must be applied at a temperature of 20°C within 24 hours, and care must be taken not to grind down the RINOL EP-QC483 AS conductive layer.

Technical data		
Liquid mixture (A+B)		
1	Density (23°C)	approx 1.2 g/cm <sup>3</sup>
2	Packaged unit size (2-component container)	18 kg
3	Colour	black
4	Shelf life/storage	6 months at 5–20°C always store above freezing and out of direct sunlight (even during transport)

Technical data		
Cured material		
1	Adhesive pull strength (DIN ISO 4624)	> 1.5 N/mm <sup>2</sup>
2	Resistance to earth	from 2 x 10 <sup>4</sup> ohms

Technical data		
Liquid mixture (A+B)		
1	Processing time (20°C)	approx. 20-25 minutes
2	Processing/material/room temperature	15–25°C (min. 3 degrees above the dew point, even during laying and curing)
3	Material consumption	300–500 g/m <sup>2</sup> consumption may vary depending on the substrate
4	Can be walked on (20 °C)	after 12-15 hours
5	Can be walked on (20 °C/rel. humidity 50 %)	within 12–24 hrs
6	Subsequent layer (20°C)	within 8–24 hrs

#### Safety Measures

For information on how to handle the product, please refer to the relevant safety data sheet and the chemicals regulations regarding the handling of coating materials (M004/M023). Wear suitable protective clothing and goggles during processing.

Skin contact with liquid resins can harm health and may cause allergies.

Information on layering possibilities and the application of RINOL products can be found in the RINOL Technical Guide.

#### Note

The specification values provided are approximate and have been determined by us. They do not constitute guaranteed properties. Consequently, no liability claims may be derived from the product data sheet.



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MANAGEMENT SYSTEM  
CERTIFIED BY DNV  
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ISO 45001

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EP resins are generally not colour-stable in the long term when exposed to UV rays and weathering.

Please note that only the latest version of the technical data sheet is valid and supersedes all previous versions.

### Important note

In addition to ambient temperature, floor temperature is also very important. As a general rule, chemical reactions are slower at low temperatures. This extends the reworking time and the time until the floor can be walked on. Higher product viscosities also increase material consumption.

At higher temperatures, chemical reactions are accelerated, reducing the reworking time and the time until the floor can be walked on.

The material should generally be protected against exposure to water during processing. Furthermore, it must be protected against direct exposure to water for approximately 24 hours following application (at 20 °C). During this period, exposure to water (e.g. dew or condensation) could lead to whitening (carbamate formation) on the surface, or the surface could become sticky at these points, which could impair adhesion to subsequent coatings.

As a general rule, protect against moisture penetration from the rear face, including during use.

### Legal note:

The technical data for the company's products has 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.

### CE labelling:

DIN EN 13813, 'Screed mortars, screed materials and screeds – Properties and requirements' (January 2003), specifies the requirements for screed mortars used in interior floor constructions. The standard also covers synthetic resin coatings and sealants. Products that comply with this standard are provided with the CE marking.

CE

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EN 13813 SR-B1,5 -IR4

Synthetic resin screed/coating for indoor use in buildings (structures according to technical data sheets)

Fire behaviour: B<sub>FL</sub>-S1

Water permeability: NPD 2

Wear resistance (Abrasion Resistance): NPD 2

Tensile bond strength: B 1.5

Impact resistance: IR 4

Impact sound insulation: NPD 2

Sound absorption: NPD 2

Chemical resistance: NPD 2

-1) the last two digits of the year in which the CE marking was affixed.

-2) NPD = No Performance Determined; characteristic value not specified

### CE marking: 1504-2

Flooring systems subjected to mechanical stresses, and the products thereof, must comply with DIN EN 1504-2 and satisfy the requirements of DIN EN 13813.

DIN EN 1504-2, 'Products and systems for the protection and maintenance of concrete structures – Part 2: Surface protection systems for concrete', specifies the requirements for the surface protection methods 'hydrophobic impregnation', impregnation, and coating. The relevant data sheet is available on request.

### European Regulation 2004/42 (Decopaint Directive)

The maximum VOC content (product category IIA/j, type SB) permitted by European Regulation 2004/42 is 500 g/l (limit in 2010) in the ready-to-use state. The maximum VOC content of RINOL EP QC 715 in its ready-to-use state is less than 500 g/l.