RINOL*EP-READY MIX*

EPOXY REPAIR MORTAR FOR MINERAL AND CEMENT-BASED SUBSTRATES

1 General Information

Product Description and Use

RINOL EP-READY MIX is a ready-to-use, fast-curing, three-component repair mortar based on high-quality epoxy resin and special fillers.

RINOL EP-READY MIX can be used as a repair mortar for mineral and cement-based, slightly absorbent substrates. It is suitable for substrates with residual moisture of up to 4.0%.

2 Laying Instructions

Substrate preparation

The substrate must have sufficient load-bearing capacity, with a compressive strength of at least 25 N/mm^2.

The adhesion of epoxy resin to a mineral substrate is based on mechanical anchoring through porosity and good penetration into the substrate. Extremely compact or vibrated cementitious surfaces, i.e. extremely smooth and very dense surfaces, require more intensive substrate preparation.

The substrate must be pre-treated by shot blasting. Major contaminants must be removed by milling. RINOL EP-READY MIX can be applied directly onto cementitious substrates with a maximum residual moisture content of 4.0%, measured using the CM method. The substrate must have a tensile bond strength of at least 1.5 N/mm^2. It must also be free from oil, grease, loose material and other contaminants, as these may impair adhesion of the applied materials. Compatibility with existing coatings must be checked.

Care must be taken to ensure that no silicone-containing materials or other materials that may interfere with the reaction come into contact with the product before or during the curing phase.

Processing

The product is supplied in three-component containers in the exact mixing ratio. Before processing, the material must be conditioned to a temperature between 10°C and 25°C. Only complete units of each component may be mixed.

The entire contents of Components A and B must be poured into a clean container. Mix for approx. 1 minute using an electric mixer. Component C, mineral filler, must then be added slowly while stirring continuously, and mixing must be continued for approx. 2 minutes.

Once the mortar has been mixed, it must be poured immediately onto the surface to be repaired or into the cavity to be filled, then smoothed with a trowel.

Once hardened, the mortar can be ground and polished.

Reworking

Before reworking, the mortar coating must be carefully ground and the resulting dust must be removed.

Safety measures

For information on handling the product please refer to the valid safety data sheet and the Chemicals Regulations regarding the handling of coating materials (M004/M023). Suitable protective clothing and goggles must be worn during processing. Machinery and equipment should be cleaned immediately after working with RINOL DE-X10.

Skin contact with liquid resins can be harmful to health and may lead to allergies

Possibilities for layering and more detailed information regarding the laying of RINOL products can be found in the RINOL Technical Guide.

Technical Data		
Liquid mixture (A+B+C)		
1	**Packaging size:** Component A (Resin) Component B (Hardener) Component C (Mineral Filler)	**30 Kg** 3,5 Kg 1,5 Kg 25 Kg
2	Density (20°C)	approx. 2 g/cm^3
3	Colours	Grey cement
4	Shelf life/storage	12 months at 5-20°C, always store above freezing and out of direct sunlight (even during transport)

Technical Data		
Liquid mixture (A+B+C)		
1	Processing time (20°C)	approx. 20-25 minutes
2	Processing/material/room temperature:	10 - 25°C (min. 3 degrees above the dew point, even during laying and curing)
3	Material consumption	approx. 2000 g/m^2 per mm layer thickness
4	Drying time (20°C)	approx. 3 hours
5	Can be ground after (20°C)	approx. 3-5 hours
6	Rel. Humidity	< 75 % (during the entire laying and curing phase)

Technical Data		
Cured material		
1	Bending tensile strength (DIN EN 196 / ASTM C 190)	> 15 N/mm^2
2	Compressive strength (DIN EN 196 / ASTM C 109)	> 90 N/mm^2
3	Adhesive pull strength (DIN ISO 4624)	> 1,5 N/mm^2
4	Shore D hardness (DIN 53505 / ASTM D 2240)	80

RCR Flooring Products

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Maintenance

To maintain the properties of the epoxy mortar coating in the long term, regular maintenance is recommended. Please request the RINOL maintenance guide for further information.

Note

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.

Important note

In addition to ambient temperature, floor temperature is of key importance.

As a general principle, chemical reactions are delayed at low temperatures. This extends the reworking time and the time until the floor can be walked on. Higher product viscosity also increases material consumption.

At higher temperatures, chemical reactions are accelerated and reworking and walkability times are reduced.

As a general principle, the system must be protected against moisture ingress from the rear side/substrate, including during use.

Legal note:

Due to the different materials, substrates and deviating working conditions, RCR Flooring Products cannot guarantee a work result or accept any liability for whatever reason and / or legal relationship. In addition, the latest general terms and conditions of RCR Flooring Products Italia S.r.l. apply, which can be requested from us or viewed and printed out at www.rinol.com . We expressly reserve the right to make changes to the product specifications.

CE marking:

DIN EN 13813 "screed mortars, screed materials and screeds - properties and requirements" (Jan. 2003) specifies requirements of screed mortars which are used for floor constructions in interior spaces. This standard also covers synthetic resin coatings and sealants. Products which conform to the above mentioned standard are provided with the CE marking.

CE

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05[1]
EN 13813 SR-B2-IR8

1119-CPR-0833
09
EN 1504-2

Synthetic resin screed/coating for indoor use in buildings (structures according to technical data sheets)	
Reaction to fire	B_{FL}-S1
Water permeability	NPD [2]
Abrasion resistance	NPD [2]
Bond	B 2
Impact resistance	IR 8
Impact sound insulation	NPD [2]
Noise 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 which are subjected to mechanical stresses and products thereof which comply with DIN EN 1504-2 must also 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 "hydrophobing impregnation", impregnation and coating. The relevant data sheet can be requested as necessary.

European Regulation 2004/42 (Decopaint Directive)

The maximum content of VOC (product category IIA/ j type sb) as permitted by European Regulation 2004/42 is 500g/l (limit 2010) in the ready-to-use state. The maximum content of RINOL EP READY MIX in the ready-to-use state is < 500 g/l VOC.

GIS Code: RE30

Further information on the GIS code is available from Wingis online at https://www.wingisonline.de

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