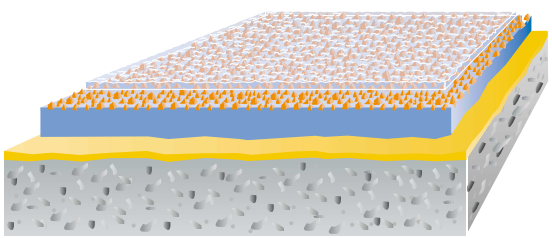
RINOL*SAFETY*

Good looking, durable and safe



System description

A three layer epoxy resin floor coating system for concrete and similar substrates. Anti-slip finish. Applied thickness 3 – 4 mm.

Maximum service temperature
60 °C

Colour range
Available in 18 standard colours.
See the RINOL Colour chart for details.

Benefits
- low odour during application
- hard wearing and long lasting
- hygienic and impermeable
- meets EU requirements for food plants
- customised anti-slip finish (R11 - R13)
- seamless
- good chemical resistance

Areas of use
- medium to heavy duty industrial floors
- wet processing areas
- food and beverage, production and packing
- commercial kitchens
- canteens

Physical properties

Compressive strength	**67 N/mm²**
DIN EN 196/ASTM C 109	
Flexural strength	**52 N/mm²**
DIN EN 196/ASTM C 190	
Adhesive strength	**> 2.5 N/mm²**
DIN ISO 4624	
Abrasion resistance (Taber CS10 wheel)	**80mg/1000 cycles**
DIN 53754/ASTM D 1044	
Shore D hardness	**84**
DIN 53505/ASTM D 2240	
Slip resistance	**R11 - R13**
DIN 51130	
Colour stability (scale 1-8, best=8)	**6**
DIN EN ISO 877	

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System description

A three layer epoxy resin floor coating system for concrete and similar substrates. Anti-slip finish. The primer is normally **RINOL EP-P200**. The levelling layer is **RINOL EP-L300** with the surface blinded with RINOL***SAFETY*** coloured quartz. The clear sealer is **RINOL EP-T710**. The applied thickness is 3 – 4 mm.

Method statement

1. Substrates

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

1.2 The substrate should have a tensile (pull-off) strength of at least 1.5 N/mm^2 when measured according to a recognised national standard.

1.3 Substrates 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. For anhydrite or magnesite substrates moisture contents up to 0.8 % by weight are permisable.

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.

2. Preparation

2.1 The prefered method of surface preparation is vacuum shot blasting. Other methods such as scabbling, grit blasting or grinding can be used but are generally less satisfactory.

3. Priming

3.1 The primer is mixed using an electric mixer taking care to avoid the inclusion of air. When homogeneous the mix is poured onto the prepared surface and spread using a Kaub spatula or rubber spreader. Material consumption will be 250 – 500 g/m^2 depending upon substrate roughness.

3.2 Onto the wet primer dry silica sand (**RINOL QS-20**) is scattered at a rate of 800 – 1200 g/m^2 to ensure good intercoat adhesion.

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

4. Application of the levelling layer

4.1 The levelling layer **RINOL EP-L300** should be applied once the primer has hardened but not completely cured. This will normally be after 12 – 15 hours.

4.2 Before application of the levelling layer excess silica sand should be removed and the primer layer should be ground and vacuum cleaned.

4.3 The two components of **RINOL EP-L300** should be mixed using an electric mixer taking care to avoid the inclusion of air. When the mix is homogeneous a mixture of dry silica sands (1 part **RINOL QS-10**, 3 parts **RINOL QS-20**) should be added at a rate of 20 parts sand to 100 parts resin and mixed again until homogeneous. This mix is then poured onto the primed surface and spread using a spatula, flatting knife or trowel at a rate of 800 – 1200 g/m^2.

4.4 Onto the wet levelling layer **RINOL Quarzit** sand of the selected colour(s) is spread at a rate of approximately 3000 g/m^2.

4.5 **RINOL EP-L300** must not be applied if the temperature falls or is expected to fall to within 3 °C of the dew point.

5. Application of the clear sealer

5.1 The clear sealer **RINOL EP-T710** should be applied once the levelling layer has hardened but not completely cured. This will normally be after 12 – 15 hours.

5.2 All excess **RINOL Quarzit** must be removed by vacuum cleaning or thorough brushing before **RINOL EP-T710** is applied.

5.3 The clear sealer **RINOL EP-T710** is mixed using an electric mixer taking care to avoid the inclusion of air. When homogeneous the mix is poured onto the **RINOL Quarzit** surface and spread using a serrated spatula and lambswool roller as appropriate to obtain the required degree of slip resistance. The material consumption should be approximately 500 g/m^2.

5.4 **RINOL EP-T710** must not be applied if the temperature falls or is expected to fall to within 3 °C of the dew point.

5.5 At 20 °C RINOL***SAFETY*** can be walked on after 18 to 24 hours, will reach full mechanical resistance after 7 days and full chemical resistance after 28 days.

Specification clauses for RINOL*SAFETY*

1) The primer shall be **RINOL EP-P200** or equivalent applied at a rate of 250 – 500 g/m^2 in such a manner as to ensure complete sealing of the substrate surface.

2) Dry silica sand (**RINOL QS-20**) shall be broadcast into the wet primer at a rate of 800 – 1200 g/m^2.

3) The levelling layer shall be **RINOL EP-L300** filled with dry silica sand at a rate of 20 parts sand to 100 parts resin. The silica sand shall be 1 part **RINOL QS-10**, 3 parts **RINOL QS-20**. The levelling layer shall be applied at a rate of 800 – 1200 g/m^2.

4) RINOL***SAFETY*** coloured quartz of the required colour(s) shall be broadcast into the wet levelling layer at a rate of approximately 3000 g/m^2.

5) The clear sealer shall be **RINOL EP-T710** applied at a rate of approximately 500 g/m^2.

6) The required degree of slip resistance shall be achieved by the use of a serrated spatula and lambswool roller as appropriate.

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