

RINOL *CRYL* mortar

Heavy duty methacrylate based mortar

System description

A three layer mortar based on methyl methacrylate resin for concrete and similar substrates. The applied thickness is 5-7 mm.

Maximum service temperature

60 °C

Colour range

Available in a range of colours based on RAL standards. Also available unpigmented. See our brochure for details.

Benefits

- rapid cure, minimum downtime
- good chemical resistance
- very high mechanical properties
- impermeable
- non-dusting
- seamless
- non-slip finish

Areas of use

- projects where minimum downtime vital
- medium to heavy duty industrial floors

Physical properties

Compressive strength 105 N/mm²

DIN EN 196/ASTM C 109

Flexural strength 35 N/mm²

DIN EN 196/ASTM C 190

Tensile strength 15 N/mm²

DIN 53455/ISO R 527

Adhesive strength > 3.5 N/mm²

DIN ISO 4624

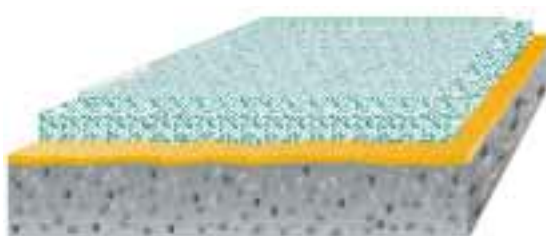
Abrasion resistance

Taber CS 10 wheel 80 mg / 1000 cycles

DIN 53754 / ASTM D 1044

Shore D hardness 80

DIN 53505 / ASTM D 2240



Clear sealer

Resin mortar

Primer

Substrate

RINOL **CRYL** mortar

System description

A three layer methyl methacrylate resin based floor coating system for concrete and similar substrates. The primer is RINOL **CRYL P200**. The mortar layer is RINOL **CRYL C500** filled with RINOL quartz. The seal coat is RINOL **CRYL S600**. The applied thickness is 5-7 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/mm² when measured 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 0.5% are permissible.
- 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 preferred 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 RINOL **CRYL P200** is mixed with the appropriate quantity of RINOL **CRYL H880** hardener according to the ambient temperature using an electric mixer. It is then applied to the floor using a short-napped paint roller. Heavily absorbent surfaces may require two applications of primer as a closed resin film on the surface is vital. Material consumption will be approximately 500 g/m² per application.
- 3.2 Onto the wet primer dry silica sand (RINOL **QS-20**) is scattered at a rate of approximately 500 g/m² 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 mortar layer

- 4.1 The mortar layer should be applied once the primer has hardened. This will normally be after 1-2 hours.
- 4.2 The resin RINOL **CRYL C500** should be mixed with the appropriate amount of RINOL **CRYL H880** hardener according to the ambient temperature. RINOL quartz filler should then be added at the rate 15 kg to 1.85 kg (2 litres) of resin and mixed thoroughly. RINOL pigment powder (2.5% by weight) may also be added at this time. When the mix is homogeneous it is poured onto the primed surface and spread using trowel or screeding bar to the specified thickness. Material consumption will be approximately 2 kg / m² / mm thickness.
- 4.3 RINOL **CRYL C500** 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 seal coat

- 5.1 The seal coat RINOL **CRYL S600** should be applied once the mortar layer has hardened. This will normally be after 1-2 hours.
- 5.2 RINOL **CRYL S600** is mixed with the appropriate amount of RINOL **CRYL H880** hardener and applied to the mortar surface using a short-napped paint roller. One or more coats may be applied depending on the desired degree of anti-slip property. Material consumption will be approximately 300 g/m² per coat.
- 5.3 RINOL **CRYL S600** must not be applied if the temperature falls or is expected to fall to within 3 °C of the dew point.
- 5.4 At 20 °C RINOL **CRYL mortar** can be walked on after 2-3 hours and will reach full mechanical properties after 8-12 hours.

Specification clauses for RINOL **CRYL** mortar

- 1) The primer shall be RINOL **CRYL P200** or applied at a rate necessary to ensure complete sealing of the substrate surface.
- 2) Dry silica sand (RINOL **QS-20**) shall be broadcast into the wet at a rate of approximately 500 g/m².
- 3) The mortar layer shall be RINOL **CRYL C500** filled with RINOL quartz at a rate of 9 parts of quartz to 1 part of resin. It shall be applied at a thickness of 5 (6)(7) mm.
- 4) The seal coat shall be RINOL **CRYL S600** applied at a rate of 300 g/m² per application to meet the specified anti-slip property.



No.1 in industrial flooring

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