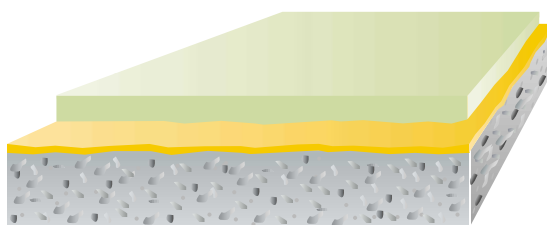


RINOL *VINYLESTER mortar*

Mortar with outstanding
chemical resistance



■ Wearing layer

■ Primer

■ Substrate

System description

A two layer vinyl ester mortar system for concrete and similar substrates. Applied thickness 5 - 8 mm.

Maximum service temperature

100 °C

Colour range

Available in natural colour only

Benefits

- outstanding resistance to almost all chemicals
- temperature and thermal shock resistant
- hard wearing and long lasting
- excellent impact resistance
- impermeable
- fast cure – minimum downtime

Areas of use

- floors subject to spillage of aggressive chemicals and solvents.
- chemical production and packing
- chemical transfer areas
- metal refining and plating
- secondary containment
- waste water treatment
- loading/unloading bays

Physical properties

Density 1800-1900 kg/m³

Compressive strength 90 N/mm²
ASTM D 695

Flexural strength 38 N/mm²
ASTM D 790

Tensile strength 15 N/mm²
ASTM D 638

Adhesive strength > 3.5 N/mm²
DIN ISO 4624
(Concrete failure)

Compressive modulus 20000 N/mm²
ASTM D 695

Coefficient of thermal expansion 2.5 x 10⁻⁵ °C⁻¹
ASTM D 696

Barcol hardness > 40
ASTM D 2583

Linear shrinkage on cure 0.3%

RINOL *VINYLESTER mortar*

System description

A two layer vinyl ester mortar system for concrete and similar substrates. The primer is **RINOL CR Primer**. The wearing layer is **RINOL CR 545 base** filled with quartz sand. The applied thickness is 5 - 8 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 The substrate should be visibly dry with a moisture content not exceeding 4% when measured according to a recognised standard.
- 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 shall be **RINOL CR Primer**.
- 3.2 The primer is mixed with catalyst and accelerator using an electric mixer and applied to the substrate by brush or roller taking care to work the material fully into the substrate. Material consumption will be 250 - 500 g/m² depending upon substrate roughness.
- 3.3 **RINOL CR Primer** 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 wearing layer

- 4.1 The **RINOL CR 545 base** resin is mixed with catalyst and accelerator until uniform.
- 4.2 The mixture is then mixed with **RINOL quartz sand** until uniform using a forced action mixer.
- 4.3 The mixture is then poured onto the primed substrate and spread to the required thickness using a steel trowel.
- 4.4 **RINOL CR 545 base** resin must not be applied if the temperature falls or is expected to fall to within 3 °C of the dew point.
- 4.5 At 20 °C **RINOL VINYLESTER mortar** can be walked on after 8 hours and will reach full chemical and mechanical resistance after 24 hours.

Specification clauses for RINOL *VINYLESTER mortar*

- 1) The primer shall be **RINOL CR Primer** applied at a rate of 250 - 500 g/m² in such a manner as to ensure complete sealing of the substrate surface.
- 2) The wearing layer shall be **RINOL CR 545 base** resin filled with **RINOL quartz sand** applied at a thickness of 5 - 8 mm.



IMPORTANT

Whilst all reasonable care is taken in compiling technical data on the company's products, all recommendations or suggestions regarding the use of such products are made without guarantee since the conditions of use are beyond the control of the company. It is the customer's responsibility to satisfy himself that each product is fit for the purpose for which he intends to use it and that the actual conditions of use are suitable.