

# RonaFloor Epoxy Floor Mortar

## Epoxy floor screed and floor repair mortar



### FEATURES

- extremely hard wearing in industrial applications
- resistant to mechanical damage
- resistant to chemical attack
- slip resistant finish
- Minimum thickness 5mm
- rapid grade can be trafficked after only 4 hours at 20°C
- range of colours available

### Description

RonaFloor Epoxy Floor Mortar Standard and Rapid are high performance epoxy resin mortars for heavy duty floor toppings and floor repairs. Minimum thickness is 5mm, typical screed thickness is 5-10mm. Typical repair thickness is 5-50mm, single size kiln-dried aggregate may be added for thick section use.

RonaFloor Epoxy Floor Mortar offers good mechanical resistance and will resist attack from spillage of a range of industrial chemicals including acids, alkalis, oils and fats.

The rapid strength gain properties of RonaFloor Epoxy Floor Mortar Rapid shortens the pot life and working time of the mixed mortar. Whilst it is suitable for floor repairs its short pot life makes it unsuitable for laying floor screeds. Surfaces repaired with RonaFloor Epoxy Floor Mortar Rapid can be accessed by foot and heavy traffic after 4 hours (at 20°C).

### Physical Properties @ 20°C (Standard grade)

<b>Volume solids</b>	<b>100%</b>
<b>Min/max thickness</b>	<b>5mm / 50mm (typical)</b>
<b>Min / max application temperature</b>	<b>10°C / 25°C</b>
<b>Pot life (approx).</b>	<b>30-45 minutes</b>
<b>Hard dry/foot traffic</b>	<b>10-12 hours</b>
<b>Full traffic</b>	<b>16 hours</b>
<b>Shelf life</b>	<b>12 months unopened</b>
<b>Full chemical resistance</b>	<b>7days</b>
<b>Compressive strength</b>	
1 day	<b>49N/mm<sup>2</sup></b>
28 days	<b>70N/mm<sup>2</sup></b>
<b>Flexural strength</b>	
28 days	<b>30N/mm<sup>2</sup></b>

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### Physical Properties (Rapid grade)

Volume solids	100%
Min/max thickness	5mm / 50mm
Min / max application temperature	10°C / 25°C
Pot life (approx).	12—15 minutes
Hard dry/foot traffic	3—4 hours
Full traffic	4 hours
Shelf life	12 months unopened
Full chemical resistance	7days
Compressive strength	
4 hours	26N/mm <sup>2</sup>
28 days	84N/mm <sup>2</sup>
Flexural strength	
24 hours	25N/mm <sup>2</sup>

### Chemical Resistance

10% Acetic Acid	Spillage only
10% Lactic Acid	Spillage only
10% Nitric Acid	Spillage only
10% Teepol	Resistant
16% Bleach	Spillage only
25% Ammonia	Spillage only
30% Chromic Acid	Resistant
30% Hydrochloric Acid	Spillage only
50% Phosphoric Acid	Spillage only
50% Sodium Hydroxide	Spillage only
50% Sugar Solution	Spillage only
50% Sulphuric Acid	Spillage only
Acetone	Not recommended
Animal Fats	Resistant
Engine Oil	Resistant
Methanol	Spillage only
High Octane Petrol	Resistant
Skydrol	Spillage only
Tap Water	Resistant
Toluene	Spillage only
White Spirit	Resistant
Xylene	Spillage only

### Packaging

RonaFloor Epoxy Floor Mortar and RonaFloor Epoxy Floor Mortar Rapid are supplied in 5kg and 25kg packs.

RonaFloor Epoxy Primer is supplied in 2.25kg and 4.5kg packs.

### Yield and Coverage

A 5kg pack of RonaFloor Epoxy Floor Mortar (and Rapid) yields approximately 2.1 litres. The coverage rate is approximately 0.21m<sup>2</sup> @ 10mm.

A 25kg pack of RonaFloor Epoxy Floor Mortar (and Rapid) yields approximately

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### Yield and Coverage (continued)

10.4 litres. The coverage rate is approximately 1.04m<sup>2</sup> @ 10mm.

A 2.25kg pack of RonaFloor Epoxy Primer will cover up to 12.5m<sup>2</sup> and a 4.5kg pack will cover up to 25m<sup>2</sup>.

### Instructions for Use

#### Substrate Preparation

To achieve optimal adhesion it is essential that RonaFloor Epoxy Floor Mortar is applied to structurally sound, clean and dry substrates. Surfaces must be prepared after making good any defects in the floor, ensuring that friable materials are removed and replaced (for fast cure repairs refer to RonaFloor Repair 1 Hour data sheets). Substrates must be prepared by captive shot blasting, scabbling or similar approved method to produce lightly textured, laitance free surfaces. Substrates must be cleaned to remove grease, oil and dirt. Substrates must be allowed to dry after washing. Substrates must be vacuum cleaned, to remove loose shot and other loose materials. New concrete or screeds should be allowed to dry prior to coating. RH at the surface must be below 75% when measured with a hygrometer, or have a moisture content less than 5%.

#### Application Conditions

The application characteristics of RonaFloor Epoxy Floor Mortar are adversely affected by low temperature; viscosity and curing time will increase. Therefore the material should ideally be stored, mixed and applied at 15°C to 20°C. At lower application temperatures the material should be stored at or warmed to 15°C to 20°C prior to use. Application characteristics are severely affected below 10°C, minimum application temperature is 5°C.

#### Substrate Priming

Prime prepared surfaces with RonaFloor Epoxy Primer, coverage up to 25m<sup>2</sup> per 4.5kg pack, depending on substrate porosity and texture. RonaFloor Epoxy Primer must not be applied to damp substrates. A single coat of RonaFloor Epoxy DPM with a kiln-dried sand blinding may be used to prime damp surfaces or two coats may be used to prime drying concrete and polymer screeds, see RonaFloor Epoxy DPM technical data for usage instructions.

#### Mixing

Add the total contents of RonaFloor Epoxy Primer Part B (hardener) to Part A (resin) and mix thoroughly with a slow speed drill and MR 3 type paddle.

RonaFloor Epoxy Floor Mortar Standard and Rapid are supplied as a three component materials. Remove all materials from the container; pour the entire contents of the resin and hardener containers into a mixing vessel or, add component B to component A and mix thoroughly with a slow speed drill and MR 3 type paddle. Gradually add the supplied aggregate to mixed resin and mix in a forced action mixer such as CreteAngle, Baron or Daines Mixall until homogeneous. 10kg of single size 5-10mm kiln-dried aggregate may be added to 25kg of product for application thicker than 25mm. Single packs may be mixed with a 1kW slow speed drill fitted with an MR4 type paddle. The product has been designed to be used as a full pack; do not part mix.

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### Instructions for Use (continued)

Mixing time should be approximately 3-4 minutes. The Standard grade will have a pot life of approximately 30-45 minutes at 20°C; Rapid grade has a pot life of 15 minutes at 20°C.

#### Application

Place the mixed material onto the wet RonaFloor Epoxy Primer. If the primer has hardened it must be thoroughly abraded if fully cured, before application of a further coat. Spread evenly in one direction with a steel float, ensuring good compaction. The surface should be closed and trowel marks removed. Overworking will adversely affect the appearance of the surface.

#### Sealing

RonaFloor Epoxy Floor Mortar is a resin rich material which does not require a sealer for chemical or wear resistance. RonaFloor Epoxy Floor Mortar may be sealed with a single coat of RonaFloor Epoxy Primer to improve cleanability. Over-sealing will affect slip resistance.

#### Working Temperatures

RonaFloor Epoxy Floor Mortar Standard or Rapid can be used in most weather conditions and in a wide temperature range, typically from +5°C to 25°C. The minimum working temperature is +5°C. Note that application at higher or lower temperatures will affect working time. The material should ideally be stored, mixed and applied at 15°C to 20°C. At lower application temperatures the material should be stored at or warmed to 15°C to 20°C prior to use. Application characteristics are severely affected below 10°C. In areas exposed to sunlight, the substrate can be hotter than the air and material temperature, which may adversely affect the workable life of RonaFloor Epoxy Floor Mortar Standard and may prevent application of RonaFloor Epoxy Floor Mortar Rapid.

### Colour Range

RonaFloor Epoxy Floor Mortar is available in grey (standard colour), red, green, brown, blue, yellow and charcoal. Note that colour consistency cannot be guaranteed and differences in colour and shading should be expected.

### Cleaning

Clean all tools and equipment with RonaDeck Low VOC Tool Cleaner/ Trowel Finishing Aid to remove uncured resin. RonaFloor Epoxy Floor Mortar is a hardwearing, durable, epoxy floor screed for medium and heavy duty industrial and commercial floors. The surface is lightly textured to provide slip resistance. Slip resistant resin floors cannot be cleaned by traditional methods and should be cleaned with a scrubber dryer, cold water power washer or similar. For additional information please refer to FeRFA Guide to Cleaning Resin Floors (FeRFA Guidance Note No:6). In clean rooms and other areas where hygiene is important, RonaFloor Epoxy Floor Mortar may not be suitable and the Ronacrete Technical Department should be consulted. To ensure the suitability of any product, a sample area should be laid and its performance and ease of cleaning assessed.

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### Shelf Life and Storage

RonaFloor Epoxy Floor Mortar should be stored unopened between 10°C and 20°C in dry warehouse conditions and out of direct sunlight. In these conditions shelf life is approximately 12 months.

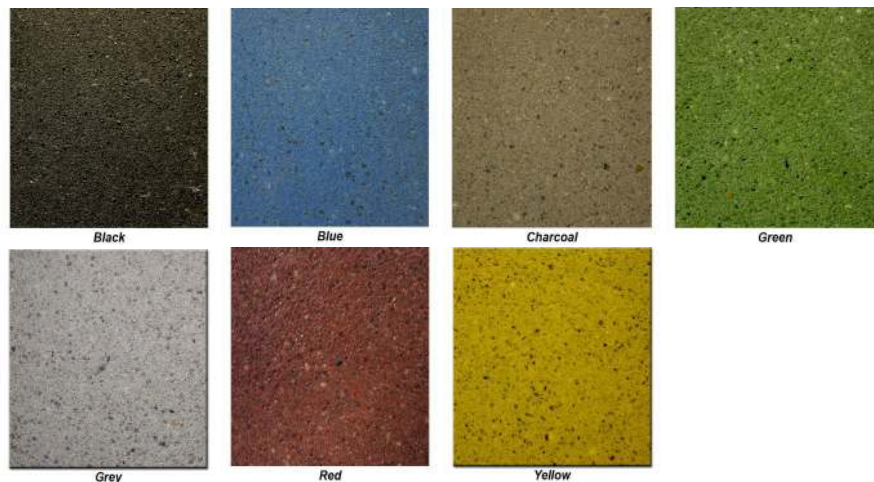
### Health and Safety

Wear protective clothing to protect skin and eyes. In case of skin contact wash with soap and water. In case of eye contact flush immediately with clean water. In case of ingestion drink milk or water, do not induce vomiting. Seek medical attention. This product contains no volatile solvents and should cause no problems due to inhalation during use. RonaFloor Epoxy Floor Mortar will burn in the event of a fire. Extinguish with foam, water mist, CO<sub>2</sub> or dry powder. Breathing apparatus should be worn.

### Site Attendance

When on site Ronacrete representatives are able, if asked, to give a general indication of the correct method of installing a Ronacrete product. It is important to bear in mind that Ronacrete Ltd is a manufacturer and not an application contractor and it is therefore the responsibility of the contractor and his employer to ensure he is aware of and implements the correct practices and procedures to ensure the correct installation of the product and that liability for its correct installation lies with the contractor and not with Ronacrete Ltd.

### Colours



The information detailed in this leaflet is liable to modification from time to time in the light of experience and of normal product application, and before using, customers are advised to check with Ronacrete Ltd, quoting the reference number, that they possess the latest issue. Any person or company using the product without first making further enquiries as to the suitability of the product for the intended use does so at his own risk, and Ronacrete Ltd can accept no responsibility for the performance of the product, or for any loss or damage arising out of such use.