

# RonaFloor Epoxy Floor Mortar

## Epoxy floor screed and floor repair mortar



### FEATURES

- good workability for small and large areas
- can be installed from 5mm
- extremely hard wearing
- good surface finish
- resistant to mechanical and chemical attack
- can be left with a slip resistant finish
- 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 repairing existing floors and providing new wearing surfaces in light and heavy traffic areas. Its formulation allows thin section application down to 5mm.

RonaFloor Epoxy Floor Mortar offers good mechanical resistance and will resist attack from most industrial chemicals including acids, alkalis, oils, fats, solvents and foodstuffs.

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</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>6 days</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	6 days
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 Epoxy Floor Rapid are supplied in 5kg and 25kg packs.

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

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

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

### Instructions for Use

#### Priming

Add the total contents of Part B (hardener) to Part A (resin) and mix well. Apply at a coverage rate of 0.18kg/m<sup>2</sup>.

#### Mixing

RonaFloor Epoxy Floor Mortar Standard and Rapid are supplied as a three component materials in a plastic container. Remove all materials from the container; pour the base and activator into the container and mix.

When thoroughly mixed slowly add the supplied aggregate and mix until homogeneous. The product has been designed to be used as a full pack; do not part mix.

Mix with a drill and paddle or similar. Mixing time should be approximately 3-4 minutes by machine and 5-6 minutes by hand. 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 primer. If the primer has dried it must be scabbled and reapplied. Spread and smooth the material with either a wood or steel float. Working the material will bring resin to the surface to allow it to be finished; avoid overworking the surface.

Day joints should be at 90° to the floor. Feather edging can be used at ramps and doorways etc but is not recommended for day joints. RonaFloor Epoxy Floor Mortar should not be used at temperatures lower than 10°C. Ideally store materials at 15°C to 20°C for 24 hours before use.

#### Working time - Rapid grade

Note that the working time of the Rapid grade is limited to only 15 minutes at a material, air and substrate temperature of 20°C (Standard 30 - 45 minutes) and within this time it must be transported to the point of application, laid and finished. After this time the mortar will lose workability.

#### 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 at high ambient temperatures the working time of the mix will be reduced; it will be increased at lower

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### Instructions for Use (continued)

temperatures. Ideally store materials between 10°C and 20°C before use. In areas exposed to sunlight, the substrate can be hotter than the air and material temperature. Work must stop if material, air or substrate temperature exceeds 25°C.

### 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 immediately with RonaFloor Epoxy Floor Mortar Cleaner. RonaFloor Epoxy Floor Mortar is a hardwearing, durable, epoxy floor screed and repair mortar for medium and heavy duty industrial and commercial floors. Its design provides texture and grip for dry and wet environments. As with all flooring of this type there is a compromise between slip resistance and ease of cleaning. In areas where ease of cleaning and hygiene are important such as laboratories, kitchens and food processing areas, 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.

For additional information please refer to FeRFA publications on the selection and cleaning of resin flooring.

### 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. Although non-flammable 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

# RonaFloor Epoxy Floor Mortar

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### Site Attendance (continued)

ensure the correct installation of the product and that liability for its correct installation lies with the contractor and not with Ronacrete Ltd.

### Colours



*Black*



*Blue*



*Charcoal*



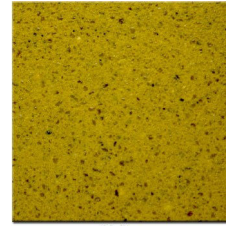
*Green*



*Grey*



*Red*



*Yellow*

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.