

RonaFloor Epoxy Floor Mortar

Epoxy floor screed and floor repair mortar

FEATURES

- ✓ Epoxy resin screed and floor repair mortars
- ✓ Can be laid very thin and to a feather edge
- ✓ Suitable for light and heavy duty floors
- ✓ Smooth surface finish
- ✓ Rapid grade: foot traffic after 4 hours, heavy traffic after 4 hours
- ✓ Standard grade: foot traffic after 10 hours, heavy traffic 16 hours

SPECIFICATION CLAUSES

1. Floor Screed / Floor Repair - Standard Set

The floor screed or floor repair shall be RonaFloor Epoxy Floor Mortar Standard by Ronacrete Ltd, telephone +44 (0) 1279 638700. The primer is to be RonaFloor Epoxy Rapid Primer. All materials to be applied in accordance with manufacturers instructions. The screed or repair can be opened to foot / heavy traffic after 10 / 16 hours at 20°C.

2. Floor Repair - Rapid Set

The floor repair shall be RonaFloor Epoxy Floor Mortar Rapid by Ronacrete Ltd, telephone +44 (0) 1279 638700. The primer is to be RonaFloor Epoxy Rapid Primer. All materials to be applied in accordance with manufacturers instructions. The repair can be opened to foot / heavy traffic after 4 hours at 20°C.

SUMMARY APPLICATION PROCEDURE

1. prepare surface
2. Apply RonaFloor Epoxy Primer or RonaFloor Epoxy Rapid Primer
3. apply RonaFloor Epoxy Floor Mortar Standard or Rapid
4. cure and protect
5. optionally apply epoxy RonaFloor epoxy floor coating

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 2mm and feather edge.

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

RonaFloor Epoxy Floor Mortar Standard

RonaFloor Epoxy Floor Mortar Standard can be used to lay floor screeds and to repair floors. Surfaces laid or repaired with RonaFloor Epoxy Floor Mortar Standard can be accessed by foot traffic after 10-12 hours and by heavy loads after 16 hours (at 20°C).

RonaFloor Epoxy Floor Mortar Rapid

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).

Advantages

- Good workability for small and large areas
- Can be feather edged
- 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
- Seven colours available

Priming

Add the total contents of Part B (hardener) to Part A (resin) and mix well. Apply at a coverage rate of 0.18kg/m².

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 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.

“Feather edging”

Whilst it is possible to lay the mortar very thin and to a feather edge, feather edged repairs are less durable than thicker repairs and it is always recommended that the repair area is cut out to allow not less than 2mm–3mm to be applied.

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.

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, CO₂ or dry powder. Breathing apparatus should be worn.

Storage/Shelf Life

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.

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

Continued on following page.....

RonaFloor Epoxy Floor Mortar

Epoxy floor screed and floor repair mortar

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.

Packaging and Coverage (approx.)		
RonaFloor Epoxy Floor Mortar Standard and Rapid	5kg	0.35m ² @ 6mm
RonaFloor Epoxy Floor Mortar Standard and Rapid	25kg	1.75m ² @ 6mm
RonaFloor Epoxy Primer	2.25kg	12.5m ²
RonaFloor Epoxy Primer	4.5kg	25m ²
RonaFloor Epoxy Rapid Primer*	2.25kg	12.5m ²
RonaFloor Epoxy Rapid Primer*	4.5kg	25m ²
Coverage rates are based on smooth, flat, non-porous surfaces		

* RonaFloor Epoxy Rapid Primer has a pot life of approximately 12 minutes @ 20°C and a working time of approximately 25 minutes @ 20°C.

Technical Summary at 20°C		
	Standard Grade	Rapid Grade
volume solids	100%	100%
min/max thickness	Feather edge/50mm	Feather edge/50mm
minimum / maximum application temperature (air, material and substrate)	10°C / 25°C	10°C / 25°C
pot life (approx).	30-45 minutes	12-15 minutes
hard dry/foot traffic	10-12 hours	3 - 4 hours
full traffic	16 hours	4 hours
shelf life	12 months unopened	12 months unopened
full chemical resistance	6 days	6 days
compressive strength	49N/mm ² at 1 day 70N/mm ² at 28 days	26N/mm ² at 4 hours 84N/mm ² at 28 days
flexural strength	30N/mm ² at 28 days	25N/mm ² at 24 hours

Chemical Resistance Chart			
Chemical	Chemical Resistance	Chemical	Chemical Resistance
Tap water	R	16% Bleach	S
Xylene	S	Animal fats	R
50% Sodium Hydroxide	S	10% Lactic Acid	S
25% Ammonia	S	10% Nitric Acid	S
50% Sulphuric Acid	S	High Octane Petrol	R
30% Hydrochloric Acid	S	Acetone	NR
30% Chromic Acid	R	Engine Oil	R
10% Acetic Acid	S	Methanol	S
Skydrol	S	Toluene	S
Teepol 10%	R	50% Phosphoric Acid	S
White spirit	R	50% Sugar solution	S
NR - Not recommended R - Resistant S - Resistant to spillage only			

RONL067 Issue 8 25 May 2011

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. All goods supplied subject to our Terms and Conditions of Sales; see www.ronacrete.co.uk.



Ronacrete Ltd, Ronac House, Flex Meadow, Merring Way, Harlow, Essex CM19 5TD, U.K.
Tel: +44 (0)1279 638700 www.ronacrete.co.uk technical@ronacrete.co.uk