RonaFloor Epoxy Floor Mortar

Epoxy floor screed and floor repair mortar

Description
RonaFloor Epoxy Floor Mortar is a pigmented three component high performance epoxy resin mortar for heavy duty floor toppings and floor repairs. Minimum application thickness is 5mm, typical screed thickness is 5-10mm. Typical repair thickness is 5-50mm.

RonaFloor Epoxy Floor Mortar offers excellent mechanical properties and will resist attach from spillage of a range of chemicals including acids, alkalis, oils and fats.

Features
- **nonylphenol free**
- **excellent abrasion resistance**
- **easy to clean finish when sealed**
- **good chemical resistance**
- **Foot traffic after 12 hours at 20ºC**
- **decorative**
- **low maintenance**

Physical Properties at 20ºC

Physical Properties	
Working time	15 - 20 minutes
Foot traffic	12 hours
Light wheeled traffic	16 hours
Full chemical cure	7 days
Protect from contact with water	7 days
Adhesion to concrete	> 2.5N/mm²

Strength data (BS EN 13892-2)		
	Compressive	Flexural
24 hours	37 N/mm²	-
7 days	56 N/mm²	-
28 days	80 N/mm²	30 N/mm²

Slip Resistance (BS 8204-6 Annex B)

Unsealed	
Dry	PTV 65
Wet	PTV 59

Packaging
Supplied in 5kg and 25kg units

Coverage
Approximately 2.1kg/m²/mm

Coverage per 5kg unit	0.47m² @ 5mm 0.23m² @ 10mm
Coverage per 25kg unit	2.38m² @ 5mm 1.19m² @ 10mm

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 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 out for at least 28 days prior to coating. RH at the surface must be below 75% when measured with a hygrometer, or have a moisture content less than 5%.

After surface preparation, substrates must exhibit readings of 25 or above when tested using a rebound hammer in accordance with BS EN 12504-2 type N and pull-off strengths in excess of 1.5 N/mm2 when tested in accordance with BS EN 13892-8.

Application Conditions
The workability and 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 25°C. At lower application temperatures the material should be stored at or warmed to 15°C to 25°C prior to use. Application characteristics are severely affected below 10°C, minimum application temperature is 5°C. Maximum relative humidity is 75% and the surface temperature is to be not less than 3ºC above the dew point.

Substrate Priming
Prime prepared surfaces with RonaFloor Epoxy Primer at 0.25 - 0.3kg/m²/coat. Porous surfaces may require more than one coat, observing intercoat period. RonaFloor Epoxy Floor Mortar is to be applied to tacky primer. If the primer is to be left to dry overnight it must be scattered with 0.5 - 1mm kiln-dried sand at a rate of 1kg/m² whilst wet. Primer should not be allowed to cure for more than 24 hours before overlaying

When the substrate has a relative humidity exceeding 75%, RonaFloor Epoxy DPM should be used (refer to product data sheet)

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Mixing
RonaFloor Epoxy Floor Mortar is supplied as a three component material. Mix Component A with a slow speed drill and MR3 paddle to disperse the pigments. Pour the entire contents of the resin and and hardener containers into a mixing vessel and continue mixing until streak free. Gradually add the supplied aggregate to the mixed resin and mix in a forced action mixer such as CreteAngle, Baron or Daines Mixall until homogeneous. 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. Mixing time should be approximately 3-4 minutes.

Application
Place the mixed material onto the primed surface. 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.

Tools should be cleaned immediately with xylene based solvent or RonaDeck Tool Cleaner to remove uncured resin.

Cleaning
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). To ensure the suitability of any product, a sample area should be laid and its performance and ease of cleaning assessed.

To improve the cleanability of RonaFloor Epoxy Floor Mortar, and in wet areas, the surface may be sealed with an epoxy or polyurethane seal coat(s) from the RonaFloor range. Please note: over sealing may adversely affect the slip resistance.

Colours
RonaFloor Epoxy Floor Mortar is supplied in grey, black and a natural aggregate beige finish.

Additional colours are available subject to minimum order quantity and surcharge.

Colour Variation
Packs should be used in strict batch rotation. Individual areas or rooms should be treated with material from a single batch to avoid the inevitable minor variations in shade between batches. (see FeRFA Guide To The Specification And Application Of Synthetic Resin Flooring).

Shelf Life & Storage
Store in unopened containers in dry warehouse conditions between 10°C and 25°C and protected from direct sunlight and frost. Shelf life is approximately 24 months in these conditions. To achieve optimum performance and appearance in shade and sheen, store and apply material at a constant ambient temperature, humidity and with the same air movement throughout the project. Avoid storage and application at air, substrate and material temperatures below 10°C.

Health & Safety
Refer to product Safety Data Sheet

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 a 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. Liability for correct installation lies with the contractor and not with Ronacrete Ltd.

Ronacrete
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