

RonaFloor Epoxy Floor Screed

Epoxy floor screed



FEATURES

- extremely hard wearing in industrial applications
- resistant to mechanical damage
- resistant to chemical attack
- slip resistant finish
- Minimum thickness 5mm
- can receive full traffic after only 16 hours at 20°C
- range of colours available

Description

RonaFloor Epoxy Floor Screed is a high performance epoxy resin mortar for heavy duty floor toppings. Minimum thickness is 5mm, typical screed thickness is 5-10mm.

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

Physical Properties @ 20°C

Volume solids	100%
Min/max thickness	5mm / 50mm (typical)
Min / max application temperature	10°C / 25°C
Pot life (approx).	30-45 minutes
Hard dry/foot traffic	10-12 hours
Full traffic	16 hours
Shelf life	12 months unopened
Full chemical resistance	7 days
Compressive strength	
1 day	30N/mm ²
7 days	55N/mm ²
Tensile strength	
1 day	4N/mm ²
7 days	10N/mm ²
Flexural strength	
1 day	0.9N/mm ²
7 days	23N/mm ²

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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 Screed is supplied in 24.6kg packs.

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

Yield and Coverage

A 24.6kg pack of RonaFloor Epoxy Floor Screed yields approximately 12 litres. The coverage rate is approximately 1.2m² @ 10mm. (84 packs per m³)

A 2.25kg pack of RonaFloor Epoxy Primer will cover up to 12.5m² and a 4.5kg pack will cover up to 25m².

Instructions for Use

Substrate Preparation

To achieve optimal adhesion it is essential that RonaFloor Epoxy Floor Screed 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 Screed 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

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Instructions for Use (continued)

15°C to 20°C prior to use. Application characteristics are severely affected below 10°C, minimum application temperature is 5°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 Screed.

Substrate Priming

Prime prepared surfaces with RonaFloor Epoxy Primer, coverage up to 25m² 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 Primer MT with a kiln-dried sand blinding may be used to prime damp surfaces or two coats of RonaFloor Epoxy DPM may be used to prime drying concrete and polymer screeds, see separate technical data for usage instructions.

Mixing

RonaFloor Epoxy Floor Screed is supplied as a three component material. 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 the 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.

Mixing time should be approximately 3-4 minutes. The material will have a pot life of approximately 30-45 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 Screed requires sealing, especially when used in wet environments. A choice of seal coats from the RonaFloor range can be applied as the final finish. Over-sealing will affect slip resistance.

Colour Range

RonaFloor Epoxy Floor Screed 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 Screed is a hardwearing, durable, 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

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Cleaning (continued)

important, RonaFloor Epoxy Floor Screed 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.

Shelf Life and Storage

RonaFloor Epoxy Floor Screed 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

Refer to 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 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.



Black



Blue



Charcoal



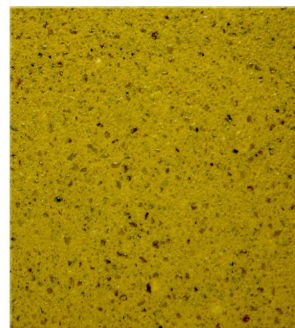
Green



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.