



RonaFloor SL

Self-smoothing seamless epoxy resin flooring system



FEATURES

- self smoothing epoxy floor screed
- seamless
- high strength
- decorative
- good chemical resistance
- easy to clean
- can be applied to 'green' concrete with use of RonaFloor Epoxy DPM

Description

RonaFloor SL is a self-smoothing seamless epoxy resin flooring system. It combines good wear resistant properties with high chemical resistance and a smooth easy to clean gloss finish. RonaFloor SL floors are used in areas subject to foot and vehicle traffic in medium to heavy duty areas where decoration, durability and cleanliness are key requirements.

RonaFloor SL can be applied to a wide variety of building substrates at 2mm - 4mm thick, is waterproof, dustproof and available in a range of colours.

Physical Properties @ 20°C

Working time	25 - 30 minutes
Foot traffic	24 hours
Light wheeled traffic	48 hours
Full chemical cure	7 days
Protect from contact with water	7 days
Adhesion to concrete	> 1.5N/mm ²

Coverage

RonaFloor Epoxy Primer @ 0.25kg/m²/coat	
2.25kg unit	9m ² (one coat)
4.5kg unit	18m ² (one coat)
RonaFloor SL (2 - 4mm thickness)	
25kg unit at 2mm thickness	6m ² per unit
25kg unit at 3mm thickness	4m ² per unit
25kg unit at 4mm thickness	3m ² per unit

Coverage rates based on a smooth substrate with medium porosity.

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Substrate Properties

Surface Preparation

To achieve optimal adhesion it is essential that RonaFloor SL 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%.

Substrate Testing

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.

Uneven surfaces should be levelled prior to the application of RonaFloor SL using an appropriate Ronacrete levelling screed eg. RonaScreed or Ronafix SBR products. Please consult the Ronacrete Technical Department for further information.

Instructions for Use

Priming

RonaFloor Epoxy Primer is a two part priming system comprising resin and hardener. Mix the total contents of the hardener with the resin and apply at a coverage rate of 0.25kg/m²/coat. Failure to double prime may result in pin holing. Allow to cure for 12 to 24 hours between coats. RonaFloor SL to be applied between 12 and 24 hours after the final coat of primer. If the overcoat window is exceeded the primer is to be thoroughly abraded and re-applied.

Mixing

Pre-mix the pigmented Part A component before use. Add the full contents of the Part B component to the full contents of the Part A component and mix with a slow speed drill and spiral mixing paddle (MR3 type) until a homogeneous colour is achieved. Typical mixing time is 3 minutes.

The mixture is to be poured into another clean container and briefly mixed again for 1 minute.

Transfer the mixed resin to a forced action mixer and add Part C (filler) and mix until homogeneous.

Application

Pour the mixed RonaFloor SL onto the cured primer and spread with a notched trowel to a thickness of 2-4mm. Having achieved the desired levels spike roller the RonaFloor SL to allow any trapped air to escape. It may be necessary to carry out this operation more than once but ensure that the material will fully recover before spike rolling the surface again. Always place adjacent mixes of RonaFloor SL against a wet edge. Note: spiked shoes should be worn.

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Instructions for Use (continued)

Temperature

The workability and flow characteristics of RonaFloor SL will vary according to temperature. Ideally store, mix and apply at 15-20°C. Avoid using when air and substrate temperatures are below 10°C. At high temperatures (> 25°C) the flow rate will be higher and pot life will be shorter.

Note

- Do not attempt to lay RonaFloor SL at product, air or substrate temperature below 10°C.
- Do not apply external heat until the RonaFloor SL has firmed up.
- Like most resin systems RonaFloor SL should not be used if the substrate does not have an effective damp proof membrane. If a dpm is required refer to the RonaFloor Epoxy DPM technical data sheet.
- This product is a carefully formulated blend of resin, hardener and other chemicals, it is designed to be applied as sold. Any on-site dilution, however small, can affect the physical characteristics of the final finish as well as the application properties and curing times.
- The product has been designed to be used as a full pack. Part mixing is not recommended.
- Uneven surfaces should be levelled prior to the application of RonaFloor SL using an appropriate Ronacrete levelling screed eg. RonaScreed or Ronafix. Please consult the Ronacrete Technical Department for further information.

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 resulting from batch manufacture, otherwise matched batches should be used to minimise these variations (an extract from FeRFA Guide To The Specification And Application Of Synthetic Resin Flooring).

Osmotic Blistering

In a few cases severe blistering of thin synthetic resin floorings can occur between 3 months and two years after laying. These blisters commonly vary in size from a few mm in diameter up to 100 mm, with heights up to 15 mm. When drilled into or otherwise broken the blisters are found to contain an aqueous liquid under very high pressure. The mechanism of their formation is not fully understood but it is assumed because of their physical state that they are caused by a process of osmosis. Because the mechanism is not fully understood it is not possible to be specific about the steps which should be taken to avoid osmotic blistering. However it is considered good practice to take steps in order to minimise the risk (an extract from FeRFA Guidance Note No 2: Osmosis in Resin Flooring ISBN 0 9538020 5 1).

Storage and Shelf Life

RonaFloor SL should be stored unopened between 15°C and 25°C in dry warehouse conditions and out of direct sunlight. In these conditions shelf life is approximately 9 months.

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.

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Packaging

RonaFloor SL is supplied in 25kg units.

Health and 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 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.

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.