



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. The use of A/S Aggregate sprinkled in to the top surface of the wet screed can improve the level of slip resistance.

Physical Properties @ 20°C	Pot life	35 minutes
	Foot traffic	20 hours
	Full use	7 days
	Min / max thickness	2mm / 4mm
	Optimum application temperature	15°C—20°C
	Compressive strength	60N/mm <sup>2</sup>
	Tensile strength	9N/mm <sup>2</sup>
	Flexural strength	16N/mm <sup>2</sup>
	Abrasion resistance	0.01mm

Abrasion resistance classified as 'Special Class' as defined in BS 8204.

Chemical Resistance Tap water Xylene 50% Sodium Hydroxide White spirit 25% Ammonia 50% Sulphuric Acid

Resistant Spillage only Resistant Resistant Resistant Resistant

# **Flooring and Bedding**

Continued on following page...

### Self-smoothing seamless epoxy resin flooring system

Chemical Resistance (continued)	30% Hydrochloric Acid 30% Chromic Acid 10% Acetic Acid Skydrol 10%Teepol 50% Sugar solution 16% Bleach Toluene 50% Phosphoric Acid Animal fats 10% Lactic Acid 10% Nitric Acid High Octane Petrol Acetone Engine Oil Methanol	Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Spillage only Resistant Spillage only Resistant Resistant Not recommended Resistant Spillage only
Coverage	<b>RonaFloor Epoxy Primer</b> 2.25kg pack 4.5kg pack	12.5m² 25m²
	RonaFloor SL 2mm thickness 3mm thickness 4mm thickness Coverage rates based on smooth substrate wi	5.5—6m² per pack 4m² per pack 3m² per pack th medium porosity
	Coverage rates based on smooth substrate wi	th medium porosity.
Instructions for Use	<ul> <li>S for Use</li> <li>Surface Preparation To achieve maximum adhesion it is essential that RonaFloor SL is applied to a structurally sound, clean substrate. Remove all loose material from the surface and make good any structural defects (refer to Ronadeck or Monoset data sheet). The surface should be cleaned of grease, oil, dirt, laitance etc by chemical cleaning and/or light grit or shot blasting. It is good practice on such surfaces, new or old, to remove laitance. The surface should then be vacuumed to remove dust and debris.</li> <li>Substrate Testing The substrate must have a compressive strength not less than 25N/mm<sup>2</sup> and a direct tensile pull off strength greater than 1N/mm<sup>2</sup> after preparation. Substrate moisture content should not exceed 6% when tested with a Protimeter. The surface relative humidity should be less than 75% when measured with a hygrometer.</li> </ul>	
	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.	
	<b>Priming</b> Epoxy Primer is a two part priming system comp	prising resin and hardener. Mix

# **Flooring and Bedding**

Continued on following page...

the total contents of the hardener with the resin and apply at a coverage rate of

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# Instructions for Use (continued)

0.18kg/m<sup>2</sup>. Allow to cure for between 12 and 24 hours and apply the RonaFloor SL. Depending on the quality and porosity of the substrate, additional primer coats may be required.

#### Mixing

RonaFloor SL is a three component system comprising resin, hardener and specially graded aggregates. Mix the complete contents of the resin and hardener in a forced action mixer until a uniform colour then slowly add the aggregate. Mix all components for at least 5 minutes. Incomplete mixing will impair the flow properties of the material; therefore ensure that the product is thoroughly mixed before application.

#### Application

Pour the mixed RonaFloor SL onto the cured primer and spread with a notched trowel to a thickness of 2-3mm. Ensure all depressions in the substrate are filled. 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.

#### **Slip Resistance**

To improve the level of slip resistance broadcast RonaFloor Slip Resistant Aggregate in to the top surface of RonaFloor SL before it loses workability - typically within 30 minutes of laying.

#### 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.

## **Flooring and Bedding**

Continued on following page...

### Self-smoothing seamless epoxy resin flooring system

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.
Health and Safety	Keep containers closed when not in use. Use barrier creams and protective clothing including gloves and goggles. Any contact with skin should be cleaned with a proprietary cleansing cream. If the product enters the eye, wash with copious amounts of clean water and seek medical advice. Only mix and use in well ventilated areas. In the event of fire use foam, dry chemical or carbon dioxide $(C0_2)$ extinguishers. Flash point is in excess of 100°C.
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.

**Flooring and Bedding** 

Continued on following page...

Other Ranges-Resin Bound and Bonded Surfacing, Concrete Repair and Coatings, Screeds, and Waterproofing and Tanking

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Colours



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.





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