

## Ronafix Underfloor Heating Screed

Pre-packed polymer modified screed for underfloor heating systems



### FEATURES

- pre-packed formulation for consistent high performance
- for use with underfloor heating systems
- high early strength and fast drying allows earlier commissioning of heating systems
- 45mm minimum thickness with 16mm heating pipes
- requires only 25mm cover over heating pipes
- ready for foot traffic after 24 hours
- rapid drying—can receive floor coverings such as vinyl, tiles and carpet after 10 days @ 50mm thick
- excellent resistance to passage of water and water vapour

### Description

Ronafix Underfloor Heating Screed is supplied as a pre-packed, ready to use mortar for laying floor screeds on underfloor heating systems. It is supplied complete as a bag of dry components and a bottle of polymer gauging liquid.

### Advantages

- Pre-packed factory formulated mortar
- Rapid strength gain
- Fast drying
- Faster commissioning of heating

### Performance Data

#### Compressive Strength

1 day	16N/mm <sup>2</sup>
7 days	36N/mm <sup>2</sup>
28 days	47N/mm <sup>2</sup>

#### Tensile Strength

7 days	3.3N/mm <sup>2</sup>
28 days	4.5N/mm <sup>2</sup>

#### Flexural Strength

7 days	7.7N/mm <sup>2</sup>
28 days	9.5N/mm <sup>2</sup>

Note that all quoted data is based on laboratory tests conducted at 20°C in laboratory conditions; site strengths will be lower.

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## Instructions for Use

### Preparation

The insulation on which the Ronafix Underfloor Heating Screed is being placed must be suitable for floating floor screeds and for the thickness of screed to be laid.

### Joints

Isolation joints should be installed around the perimeter of the floor, in doorways and around columns, manholes and other fixed elements. Bay proportions should preferably not exceed 2:1 length to width ratio, to limit uneven curing stresses. Where separate heating zones occur within the same floor area, a joint must be positioned in the screed between the zones.

### Mixing

Ronafix Underfloor Heating Screed must be mixed by forced action mixer such as a Baron or CreteAngle mixer. Free fall mixers must not be used. Mix for approximately 3 minutes. Over mixing will entrain air which may reduce performance. Once mixed the mortar should be used as quickly as possible.

### Placing

As soon as the mortar is mixed, it should be placed onto the substrate, compacted, ruled and closed with a float or trowel. Avoid overworking the surface, this will increase the tackiness of the mortar. The float should be regularly washed, to prevent build up of polymer/cement paste.

Screeds with an overall thickness greater than 50mm approximately, may be placed monolithically (wet on wet) in two layers, to ensure good compaction. Each layer should be of approximately equal thickness and using the same mix design. To ensure satisfactory adhesion the lower layer should be raked to provide a key for the next layer. Should an intermediate layer begin to harden, a priming coat must be applied before application of the next layer.

### Curing

Curing must commence as soon as possible after finishing the screed. Cure the screed with tight fitting polythene, placed on to the screed as early as it is possible to do so without damaging the surface. Cover for 24 hours then remove and air cure.

## Working Temperatures

Ronafix Underfloor Heating Screed can be used in most weather conditions and in a wide temperature range, typically from +3 °C to 25 °C.

## Traffic

Ronafix Underfloor Heating Screed can receive foot traffic after 24-36 hours (typically at 20 °C). This time will vary according to temperature, amount of liquid added during mixing, air circulation and general conditions.

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### Drying Times

Drying times are dependent on screed thickness, ambient conditions, mixing, air circulation, substrate conditions and other variables. In good conditions Ronafix Underfloor Heating Screed will reach 75% RH after 10 days air curing at 50mm thickness. Measure RH with a hair hygrometer.

### Contractors

Ronacrete Ltd maintains a list of approved contractors whose knowledge and experience may help to ensure a satisfactory outcome to the works. There are obvious advantages in selecting a contractor who has previous experience of the material but if requested the Ronacrete Technical Department will provide guidance and assistance to other contractors.

### Packaging

Ronafix Underfloor Heating Screed is supplied in 25kg packs.

### Coverage / Yield

A 25kg pack will yield 11 litres of mixed material, covering a square metre at 11mm thick or 0.244m<sup>2</sup> at 45mm thick. All quoted figures are approximate.

### Shelf Life and Storage

Ronafix Underfloor Heating Screed should be stored unopened between 5°C and 25°C in dry warehouse conditions and out of direct sunlight. In these conditions shelf life is approximately 6 months.

### Health and Safety

Ronafix Underfloor Heating Screed contain cement; protective clothing, such as goggles, masks, overalls and gloves is recommended, to prevent any effect from prolonged skin contact, inhalation or ingestion. In the event of skin contact, wash with soap and water. Seek medical advice if irritation or pain occurs. In the event of eye contact, irrigate with plenty of clean water and seek immediate medical advice. In the event of ingestion, do not induce vomiting. Seek immediate medical advice.

### 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.

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<p><b>BS EN 13813</b></p> <p><b>Floor Screed</b></p>
<p><b>Product: Ronafix Underfloor Heating Screed</b>  <b>Reaction to Fire: A2-s1,d0</b>  <b>Release of Corrosive Substances: None</b>  <b>Capillary Water Absorption: &lt; 0.40kg / m<sup>2</sup> . min0.5</b>  <b>Compressive Strength: &gt; C40</b>  <b>Flexural Strength: &gt; F5</b>  <b>Wear Resistance BCA method: AR1</b>  <b>Thermal Conductivity: 2.5 W m<sup>-1</sup> k<sup>-1</sup></b>  <b>Release of Dangerous Substances: Refer to Safety Data Sheet</b></p>

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.