

## RonaFloor Repair 1 Hour 25mm+

Ultra-rapid floor repair and bedding mortar



### FEATURES

- ultra-rapid strength gain
- high ultimate strengths
- foot traffic and light wheeled traffic after only 1 hour @ 20°C
- Heavier traffic after only 2 hours @ 20°C
- low temperature application, minimum working temperature -10°C
- pre-packed for ease of use and assured quality
- application from 25mm thickness
- water resistant
- frost resistant

### Description

RonaFloor Repair 1 Hour 25mm+ is a polymer modified repair mortar designed for rapid strength gain and/ or low temperature use; after 1 hour of curing @ 20°C the material is sufficiently strong for foot traffic and light vehicle traffic and for heavier traffic after 2 hours of curing @ 20°C.

### Uses

RonaFloor Repair 1 Hour 25mm+ is used for patch repairs to concrete slabs where rapid strength gain is required or when low ambient temperature prevents the use of standard set mortars. RonaFloor Repair 1 Hour 25mm+ is suitable for heavy duty use.

### Physical Properties

Note that the following data is based on laboratory tests conducted at 20°C. Cubes, tested at 28 days, are 100mm and air cured. Results shown are typical laboratory strengths achieved by casting and curing cubes in ideal working conditions; site strengths will be lower.

#### Typical Compressive Strength

1 hour	≥ 15N/mm <sup>2</sup>
2 hours	≥ 20N/mm <sup>2</sup>
24 hours	≥ 25N/mm <sup>2</sup>
7 days	≥ 35N/mm <sup>2</sup>
28 days	≥ 45N/mm <sup>2</sup>

#### Typical Flexural Strength

1 hour	> 1N/mm <sup>2</sup>
24 hours	> 16N/mm <sup>2</sup>
7 days	> 20N/mm <sup>2</sup>
28 days	> 22N/mm <sup>2</sup>

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### Physical Properties (continued)

#### Typical Tensile Strength

24 hours	> 4N/mm <sup>2</sup>
7 days	> 5N/mm <sup>2</sup>
28 days	> 5.5N/mm <sup>2</sup>

### Yield

Yield	0.010m <sup>3</sup> (10.0 litres) approximately
Packs required per m <sup>3</sup>	100 packs approximately

### Working Time and Mixing

RonaFloor Repair 1 Hour 25mm+ is a rapid set mortar system, designed for mixing in small volume. The working time is approximately 10-15 minutes, dependent on material and ambient temperature. It must therefore be mixed close to the area of application so that it can be placed and finished before initial set. For larger volume work where rapid strength gain is required, please contact the Ronacrete Technical Department.

### Instructions for Use

#### Floor Repair

1. saw cut repair perimeters to produce a vertical edge 25mm minimum and remove materials within the repair, as required, to ensure that a minimum repair thickness of 25mm can be achieved
2. Prepare concrete by mechanical abrasion to produce a textured surface and remove friable material
3. Thoroughly clean to remove grease, oil and other contaminants which may impair adhesion. Vacuum clean to remove loose materials, dust and debris
4. ensure that the substrate is sufficiently strong to restrain the repair
5. wet the surface with clean water; soak very porous surfaces for up to 24 hours; remove all standing water before priming the damp substrate
6. mix Ronacrete Rapid Primer with a slow speed drill fitted with an MR2 type spiral paddle and apply, ensuring total uniform coverage
7. Only prime an area which can be covered by the mortar within the working time of the primer
8. mix RonaFloor Repair 1 Hour 25mm+ with a slow speed 1kW drill fitted with an MR4 type helical paddle, close to the area of application, pouring the supplied gauging liquid into a mixing vessel and gradually adding the powder component
9. trowel apply the mixed material to the wet or tacky primer, compact and close the surface with a float or trowel. Dry primer must be thoroughly abraded and a fresh coat applied
10. protect the surface until sufficiently hard (typically 1 hour at 20°C)

#### Bedding Kerbs, Paviours, Copings

1. prepare the substrate by mechanical abrasion to produce a textured surface and remove friable material.
2. Thoroughly clean to remove grease, oil and other contaminants which may impair adhesion. Vacuum clean to remove loose materials, dust and debris
3. ensure that the substrate is sufficiently strong to restrain the repair
4. wet the surface with clean water; soak very porous surfaces for up to 24 hours; remove all standing water before priming the damp substrate
5. mix Ronacrete Rapid Primer with a slow speed drill fitted with an MR2 type

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### Instructions for Use (continued)

6. spiral paddle and apply, ensuring total uniform coverage
6. only prime an area which can be covered by the mortar within the working time of the primer
7. mix RonaFloor Repair 1 Hour 25mm+ with a slow speed 1kW drill fitted with an MR4 type helical paddle, close to the area of application, pouring the supplied gauging liquid into a mixing vessel and gradually adding the powder component
8. trowel apply the mixed material to the wet or tacky primer, compact and produce a textured surface for bedding of the component.
9. Dry primer must be thoroughly abraded and a fresh coat applied
10. Prime the contact surface of the component and press into the fresh mortar, ensuring intimate contact. Ensure that neither primer nor mortar makes contact with visible surfaces of the unit, porous surfaces will stain.

### Working Temperatures

RonaFloor Repair 1 Hour 25mm+ can be used in most weather conditions and in a wide temperature range, typically from -10°C to 25°C. At high ambient temperature the working time of the mix will be considerably reduced; it will be increased at lower temperatures. Care must be taken when using RonaFloor Repair 1 Hour 25mm+ in extreme temperatures to ensure that the water used for dampening, and the primer, does not freeze or dry/ evaporate on or soon after contact with the substrate.

### Repair Volume and Size Limitations

Consideration should be given to the rapid exothermic reaction of very fast setting materials applied in large volume or large areas; the reaction is controlled in small patch repairs but thermal cracking can occur in larger repairs. Contact Ronacrete Technical Department for advice about large repair areas or use in large volume.

### Packaging

RonaFloor Repair 1 Hour 25mm+ is supplied in 25kg packs.

### Shelf Life and Storage

Store unopened between 5°C and 25°C in dry warehouse conditions and out of direct sunlight. In these conditions shelf life is approximately 9 months.

### Health and Safety

RonaFloor Repair 1 Hour 25mm+ contains cement; protective clothing such as goggles, 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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13 0836-CPR-13/F046
BS EN 1504-3 Concrete Repair
<b>Product: RonaFloor Repair 1 Hour 25mm+</b> <b>Compressive Strength: <math>\geq 25</math> MPa</b> <b>Chloride ion Content: <math>\leq 0.05\%</math></b> <b>Bond Strength Test: <math>\geq 1.5</math> MPa</b> <b>Rest. Shrinkage/Expansion: <math>\geq 1.5</math> MPa</b> <b>Carbonation Resistance: <math>dk \leq</math> control concrete (MC 0.45))</b> <b>Reaction to Fire: A2-s1,d0</b> <b>Dangerous Substances: Refer to Safety Data Sheet</b>

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.