# RonaFloor Repair 1 Hour 2-6mm

## Ultra-rapid floor repair and bedding mortar

**FEATURES**

- **ultra-rapid strength gain**
- **high ultimate strengths**
- **foot traffic after only 1 hour @ 20ºC**
- **trolley traffic after only 2 hours @ 20ºC**
- **low temperature application, minimum working temperature –10ºC**
- **pre-packed for ease of use and assured quality**
- **thin section application from 2mm - 6mm**
- **water resistant**
- **frost resistant**

### Description

RonaFloor Repair 1 Hour 2-6mm is a thin polymer modified repair mortar designed for rapid strength gain and/ or low temperature use; after 1 hour of curing @ 20ºC the material is sufficiently strong for foot traffic and is sufficiently strong for trolley traffic after 2 hours of curing @ 20ºC.

### Uses

RonaFloor Repair 1 Hour 2-6mm 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 2-6mm is suitable for light duty use, RonaFloor Repair 1 Hour 6-50mm is suitable for medium duty use from 6-10mm and for heavy duty use from 12mm thickness.

### 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 | ≥ 7N/mm² |
| 2 hours | ≥ 15N/mm² |
| 24 hours | ≥ 25N/mm² |
| 7 days | ≥ 35N/mm² |
| 28 days | ≥ 45N/mm² |

**Typical Flexural Strength**

| | |
|---|---|
| 1 hour | > 2.5N/mm$^2$ |
| 24 hours | > 6N/mm$^2$ |
| 7 days | > 10N/mm$^2$ |
| 28 days | > 13.5N/mm$^2$ |

CE

# RonaFloor Repair 1 Hour 2-6mm

## Ultra-rapid floor repair and bedding mortar

**Physical Properties (continued)**

| **Typical Tensile Strength** | |
|---|---|
| 24 hours | > 2.5N/mm$^2$ |
| 7 days | > 4N/mm$^2$ |
| 28 days | > 6N/mm$^2$ |

**Yield**

| | |
|---|---|
| Yield | 0.0139m3 (13.9 litres) approximately |
| Packs required per m³ | 71.94 packs approximately |

**Working Time and Mixing**

RonaFloor Repair 1 Hour 2-6mm 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 2mm minimum and remove materials within the repair, as required, to ensure that a minimum repair thickness of 2mm 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 2-6mm 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

CE

# RonaFloor Repair 1 Hour 2-6mm

## Ultra-rapid floor repair and bedding mortar

**Instructions for Use (continued)**

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 2-6mm 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 2-6mm 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 2-6mm in extreme temperatures to ensure that the water used for damping, 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 2-6mm 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 2-6mm 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.

CE

# RonaFloor Repair 1 Hour 2-6mm

## Ultra-rapid floor repair and bedding mortar

Ronacrete Ltd,
Flex Meadow, Harlow
Essex, CM19 5TD, UK

**13**
**0836-CPR-13/F046**

**BS EN 1504-3**

**Concrete Repair**

**Product: RonaFloor Repair 1 Hour 2-6mm**
**Compressive Strength: ≥ 25 MPa**
**Chloride ion Content: ≤ 0.05%**
**Bond Strength Test: ≥ 1.5 MPa**
**Rest. Shrinkage/Expansion: ≥ 1.5 MPa**
**Carbonation Resistance: dk ≤ control concrete (MC (0.45))**
**Reaction to Fire: A2-s1,d0**
**Dangerous Substances: Refer to Safety Data Sheet**





Ronacrete
Ronac House, Flex Meadow, Harlow, Essex CM19 5TD, U.K.
Tel: +44 (0)1279 638700 www.ronacrete.co.uk technical@ronacrete.co.uk