RonaFloor Repair 1 Hour 6-50mm

Ultra-rapid floor repair and bedding mortar

Description
RonaFloor Repair 1 Hour 6-50mm is a thin section polymer modified repair mortar designed for rapid strength gain and/ or low temperature use; after 1 hour of curing at 20ºC the material is sufficiently strong for foot traffic and is sufficiently strong for light vehicle traffic after 2 hours of curing at 20ºC.

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

Features
- **two component material for convenience**
- **may be installed in temperatures down to -10ºC**
- **ultra-rapid strength gain**
- **high ultimate strengths**
- **suitable in very heavy duty industrial premises**
- **ready for foot traffic after 1 hour and light wheeled traffic after 2 hours at 20ºC**
- **rapid drying**
- **application from 6mm to 50mm**
- **excellent abrasion resistance**
- **water and frost resistant**
- **internal and external application**

Packaging
25kg total pack size (22.9kg bag & 2.1ltr liquid)

Coverage

Coverage per pack	1.8m² @ 6mm 1.1m² @ 10mm 0.31m² @ 35mm 0.22m² @ 50mm
Yield per pack	11 litres
Pack required per m³	91 packs approximately

Repair Volume & 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.

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.

Strength data			
	Compressive	Tensile	Flexural
1 hour	≥ 10N/mm²	> 1.5N/mm²	> 4.0N/mm²
2 hours	≥ 15N/mm²	-	-
24 hours	≥ 25N/mm²	> 2.5N/mm²	> 6.0N/mm²
7 days	≥ 35N/mm²	> 6.0N/mm²	> 13.0N/mm²
28 days	≥ 45N/mm²	> 6.5N/mm²	> 15.5N/mm²

Working Time & Mixing
RonaFloor Repair 1 Hour 6-50mm 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.

Working Temperatures
RonaFloor Repair 1 Hour 6-50mm 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 6-50mm in extreme temperatures to ensure that the water used for damping does not freeze or dry/evaporate on or soon after contact with the substrate.

Instruction for Use

Floor Repair
1. Saw cut repair perimeters to produce a vertical edge 6mm minimum and remove materials within the repair, as required, to ensure that a minimum repair thickness of 6mm 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

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

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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 6-50mm 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, Paving, 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 accept a high strength mortar.
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 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 6-50mm 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.

Shelf life & storage

RonaFloor Repair 1 Hour 6-50mm 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 9 months.

Health & 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 a 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. Liability for 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.

Ronacrete
WORLD CLASS MANUFACTURER

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