

Prepacked flowable repair concrete for pumping or pouring



FEATURES

- flowable structural repair concrete for large volume repairs
- high ultimate strength
- high cement replacement content reduces curing temperature and carbon footprint
- free flowing through congested reinforcement arrays
- shrinkage compensated
- pumped or poured

Description

RonaBond Flowable Micro Concrete is a repair concrete used for reinstatement of structural elements such as columns and beams. RonaBond Flowable Micro Concrete is designed for pumped or poured application to watertight shutters when hand application of mortars is impractical or undesirable. RonaBond Flowable Micro Concrete is shrinkage compensated and provides high ultimate strengths.

Physical Properties	Compressive 1 day 3 days 7 days 28 days	30N/mm ² 50N/mm ²
	Compressive 1 day 3 days 7 days 28 days	25N/mm ² 40N/mm ²
	Compressive 1 day 3 days 7 days 28 days	20N/mm ²
	Tensile Stren 3 days 7 days 28 days	2.5N/mm ² 3.5N/mm ²

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Physical Properties (continued)	Bond Strength 3 days 7 days 28 days	2.0N/mm ² 2.5N/mm ² 3.0N/mm ²
	are cured under are typical labo	oted data is based on laboratory tests conducted at 20°C. Cubes r polythene for 24 hours and then and air cured. Results shown ratory strengths achieved by casting and curing cubes in ideal ns; site strengths may be lower.
Yield		able consistency) per 25kg unit consistency) per 25kg unit
Mixing Instructions	Baron or Crete. Putzmeister SP drill fitted with a water for each p continuously. A	vable Micro Concrete must be mixed in a forced action mixer eg. Angle pan mixer, a suitable Putzmeister mixer/ pump such as 11 LMR or for smaller volumes, a 1kW slow speed [≤ 500 rpm] in MR4 spiral paddle). Place the minimum quantity (2.5 litres) of vack of material in the mixer and gradually add the powder, mixing dd more water as required up to the maximum total content of 3.5 Mix for up to 5 minutes to achieve a lump free consistency.
Instructions for Use	 expose a accept Ro 2. Concrete gap of 15. exposed. should be repairing of blasted to residues. 3. Saw cut a avoid feat 15mm fro 4. Exposed of gunning m 5. All surface co 6. Brush app 0.8-1.7kg Pumped appli When rep to avoid e Construct the lowes corners of be release 	And Priming the identified for removal must be cut out by approved means to suitable substrate which is sound, stable and strong enough to onaBond Flowable Micro Concrete. around steel reinforcement must be fully removed, to provide a mm between concrete and steel, until clean uncorroded steel is Loose rust and scale must be removed. Heavily corroded steel assessed by the engineer and replaced as necessary. When chloride contaminated concrete, exposed steel must be grit expose bright, uncorroded steel before washing to remove round repair perimeters to a minimum depth of 10mm at 90°, to hered edges and remove all concrete within saw cuts which is ≤ m the repair surface. concrete surfaces must be suitably textured, scabbling or needle hay be required, depending on the method of concrete removal. es must be thoroughly cleaned to remove all loose materials and ontamination which may prevent inhibit adhesion. by two coats of Ronacrete Standard Primer to the steel and cast (or similar) kiln-dried sand into the second coat. Foation to sealed shutter a watertight shutter with a single port for pumping, positioned at t point of the shutter. Position bleed pipes at the top and bottom f the shutter to allow residual water, trapped and entrained air to ed. The shutter must be sufficiently strong to prevent hent or deflection during the pour.
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Instructions for Use (continued)	 Fill the shutter with clean water at least two hours before the pour commences, longer if the concrete is very porous and drain when ready to start the repair process. Mix RonaBond Flowable Micro Concrete using a suitable forced action mixer/pump, such as Putzmeister SP 11 LMR and pump into the shutter from one position only, to avoid air entrapment. Pumping should be continuous and material waiting to be placed should continue to be agitated. When undiluted grout seeps from the bleed pipes the pipes must be capped. The material must not be vibrated but the shutter may be tapped to displace air bubbles. The shutter may be removed after 48 hours @ 20°C, longer at lower temperatures, but the exposed material must then be protected from drying winds and frost by application of Ronacrete Curing Membrane spray applied curing agent. Construct a watertight shutter with bleed pipes at the bottom corners of the shutter. The shutter must be sufficiently strong to prevent displacement or deflection during the pour. 	
	 Fill the shutter with clean water at least two hours before the pour commences, longer if the concrete is very porous and drain when ready to start the repair process. Mix RonaBond Flowable Micro Concrete using a forced action mixer such 	
	 as Baron or CreteAngle and pour continuously into the shutter from one position only. When undiluted grout seeps from the bleed pipes the pipes must be capped. Pouring need not be continuous if rodding access is available, but poured material must remain flowable. The material must not be vibrated but the shutter may be tapped to displace air bubbles and may be rodded if the top of the shutter is open. 4. The shutter may be removed after 48 hours @ 20°C, longer at lower temperatures, but the exposed material must then be protected from drying winds and frost by application of Ronacrete Curing Membrane spray applied curing agent. 	
Working Temperatures	RonaBond Flowable Micro Concrete can be used in most weather conditions and in a wide temperature range, typically from +3°C on a rising thermometer to 30°C; at low temperature the flow of the material will be affected and at 25°C + the working time of the mix will be reduced. Warm weather working techniques are required above 25°C. Ideally store materials between 10°C and 20°C before use.	
Packaging	RonaBond Flowable Micro Concrete is supplied in 25kg bags.	
Health and Safety	Refer to Safety Data Sheet.	
Storage	RonaBond materials 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.	

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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.

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, to for any loss or damage arising out of such use.

