



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.

Test Data	Compressive 1 day 3 days 7 days 28 days	30N/mm² 50N/mm²
	Compressive Strength @ 20°C (Fluid)	
	1 day	5N/mm ²
	3 days	25N/mm ²
	7 days	40N/mm ²
	28 days	60N/mm ²
	Compressive Strength @ 5°C (Flowable)	
	1 day	N/A
	3 days	
	7 days	20N/mm ²
	28 days	40N/mm ²
	Tensile Strength	
	3 days	2.5N/mm ²
	7 days	3.5N/mm ²
	28 days	4.0N/mm ²

Concrete Repair and Coatings

Continued on following page...

Other Ranges—Resin Bound and Bonded Surfacing, Screeds, Flooring and Bedding, and Waterproofing and Tanking

Prepacked flowable repair concrete for pumping or pouring

Test Data (continued)	Bond Strength 3 days 7 days 28 days	2.0N/mm ² 2.5N/mm ² 3.0N/mm ²
	are cured unde 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 pratory strengths achieved by casting and curing cubes in ideal ons; site strengths may be lower.
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] an MR4 spiral paddle). Place the minimum quantity (2.5 litres) of back 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 Rd 2. Concrete gap of 15 exposed. should be repairing blasted to residues. 3. Saw cut a avoid fear 15mm from 4. Exposed gunning r 5. All surface c 6. Brush app 0.8-1.7kg Pumped appl 1. When repairing 0.8-1.7kg 2. Construct the lowes corners o be releas displacen 3. Fill the should be constructed and the lowes corners or be releas and the should be constructed and the should be should be	ete 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 e assessed by the engineer and replaced as necessary. When chloride contaminated concrete, exposed steel must be grit e expose bright, uncorroded steel before washing to remove

Concrete Repair and Coatings

Continued on following page...

Other Ranges-Resin Bound and Bonded Surfacing, Screeds, Flooring and Bedding, and Waterproofing and Tanking

Prepacked flowable repair concrete for pumping or pouring

Instructions for Use (continued)	 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. 		
	 Poured application to bird's beak or open topped shutter 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. 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.		

Concrete Repair and Coatings

Continued on following page...

Other Ranges-Resin Bound and Bonded Surfacing, Screeds, Flooring and Bedding, and Waterproofing and Tanking

Prepacked flowable repair concrete for pumping or pouring

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 hor responsibility for the performance of the product, or for any loss or damage arising out of such use.



Concrete Repair and Coatings