

RonaBond Concrete Repair Mortar

Pre-packed polymer modified concrete repair mortar



FEATURES

- Pre-packed concrete repair mortar
- Excellent long term durability
- Waterproof
- Up to 35mm per layer
- Compressive strength in excess of 45N/mm²
- Suitable for structural and cosmetic repairs
- Easy to mix and apply
- Approved by WRC for use in contact with potable water

Description	RonaBond Concrete Repair Mortar is a prepacked, ready to use mortar for concrete repair and is used with Ronacrete Standard Primer which give monolithic adhesion to all correctly prepared surfaces.	
	RonaBond Concrete Repair Mortar is us damaged as a result of spalling through cycling, impact or other damage.	sed to repair and replace concrete reinforcement corrosion, freeze/thaw
Test Data	Compressive Strength @ 28 Days Tensile Strength @ 28 Days Flexural Strength @ 28 Days	50N/mm² 5N/mm² 15N/mm²
Water Permeability	0-10 minutes 10-30 minutes 30-60 minutes	not detectable nil nil
Shrinkage	3:1 sand : cement mortar RonaBond Concrete Repair Mortar	0.07% 0.01%
Carbonation Tests	Repair mortar applied Investigation conducted Depth of repair mortar Estimated complete carbonation Minimum protection afford Note that all quoted data is based on labora tested at 28 days, are 100mm and air co laboratory strengths achieved by casting	1971 1984 30.7mm (average) 1,072 years (average) 77 years atory tests conducted at 20°C. Cubes, ured. Results shown are MAXIMUM and curing cubes in ideal working

conditions; site strengths will be lower.

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Packaging / Yield	RonaBond Concrete Repair Mortar is supplied in 25kg packs. Coverage is approximately $1m^2$ at 11mm.
	Ronacrete Standard Primer is supplied in 2kg and 10kg packs. Coverage is 3-4m ² and 15-20m ² respectively.
Instructions for Use	Preparation All concrete identified for removal must be removed back to a suitable substrate which is sound and stable and strong enough to accept the mortar.
	Reinforcing steel in the repair area must be exposed, and concrete cut back along the length of the steel to expose clean uncorroded steel. Loose rust and scale must be removed. Cut around the periphery of spalled areas to a minimum depth of 6mm at 90° to avoid dished edged and feather edged repairs.
	Remove concrete around steel to allow not less than 15mm of repair mortar to be placed around the steel. Corroded steel must be replaced where necessary. All removal of concrete and steel must be carried out in accordance with the specifiers recommendations.
	All surfaces must be cleaned to remove all loose dust, debris and surface contamination which may prevent adhesion of repair mortar to concrete and steel. Water used must be clean and of potable quality.
	When repairing chloride contaminated concrete any exposed reinforcing steel must be grit blasted or similarly prepared back to bright, uncorroded steel.
	Following preparation of concrete and steel, thoroughly damp all concrete surfaces to be repaired. Remove any standing water.
	Priming Mix and brush apply Ronacrete Standard Primer to the steel and allow to become tacky, not dry. When priming coat on steel is tacky, brush a single coat of Ronacete Standard Primer on to the damp concrete and apply a second coat on to the steel. Ensure that the first priming coat applied to the steel is not removed during the application of the second coat.
	The concrete repair mortar must be applied on to the wet or tacky primer before the primer dries. If the primer dries it must be thoroughly scarified and reapplied.
	Mixing Mix RonaBond Concrete Repair Mortar in a forced action mixer (eg. Creteangle or Baron pan mixer) or mix single pack mixes with a slow speed 1kw drill fitted with an MR4 type paddle. Do not use a free fall mixer. Add all of the supplied gauging liquid to the mixer or mixing vessel, commence mixing and gradually add the powder component for approximately 3 minutes, until components are fully dispersed.
	Placing Apply in layers to achieve the required thickness, reform the original profile of the concrete and cover reinforcing steel. Layer thickness will vary according to the shape and size of the repair, the nature of the substrate and mixing and application technique. Minimum depth of application is 6mm. Maximum depth per

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Instructions for Use (continued)	layer 35mm. Apply not less than 15mm around reinforcing steel. Compact to prevent honeycombing and voids. Scratch the face of intermediate layers, allow to firm up and apply Ronacrete Standard Primer immediately prior to applying the next layer.
	Anti-carbonation coating If applying a protective or decorative coating, leave the final layer with a sponged or wood float finish to aid adhesion.
	Curing Cure the surface with Ronacrete Curing Membrane if being covered with a coating or another layer of mortar such as RonaBond Easy Skim FC.
Working Temperatures	RonaBond Concrete Repair Mortar can be used in most weather conditions and in a wide temperature range, typically from +3°C to 25°C and above;.Note that at high ambient temperatures the working time of the mix will be reduced; it will be increased at lower temperatures. Ideally store materials between 10°C and 20°C before use.
Health and Safety	Refer to Safety Data Sheet.
Storage	RonaBond Concrete Repair Mortar 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.
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, or for any loss or damage arising out of such use.

