

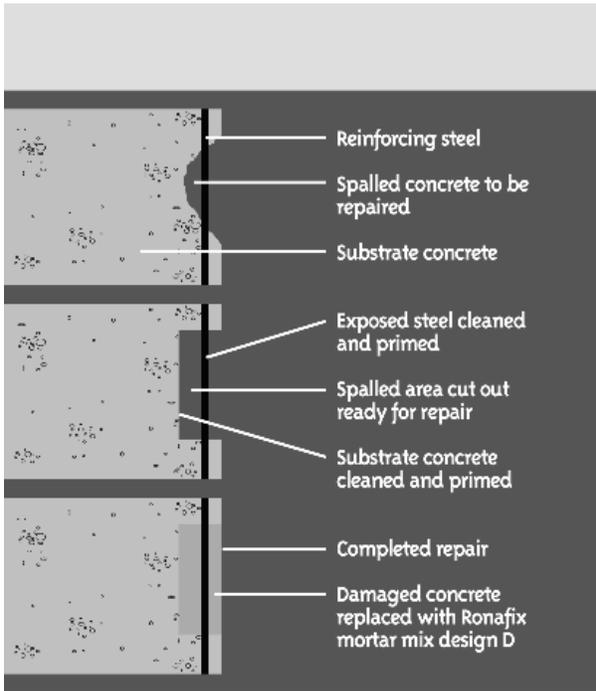
Ronacrete Ronafix

The use of Ronafix for concrete repair

Technical Data Sheet

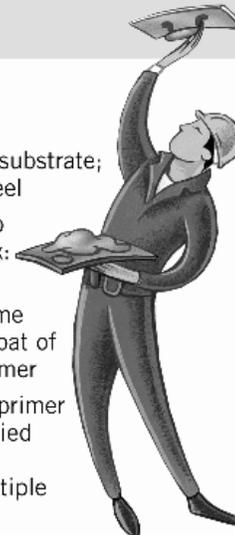


Certificate No. 89/2151



General Specification

1. Prepare and assess substrate; clean reinforcing steel
2. Prime steel with two coats of 1:1 Ronafix: cement primer
3. Damp concrete; prime concrete with one coat of Ronafix: cement primer
4. To the wet or tacky primer apply Ronafix modified mortar to required thickness using multiple layers as required
5. Cure with Monocure (and apply compatible Ronacrete surface coatings as necessary)



MIX DESIGN	D		A	
	CONCRETE REPAIR OVER REINFORCING STEEL		CONCRETE REPAIR NOT OVER REINFORCING STEEL	
ALL MIXES BASED ON DRY SAND	6mm/35mm*** (min repair depth around steel = 15mm)		6mm/35mm***	
min/max depth per layer	by weight	by volume	by weight	by volume
cement	50kg	1	50kg	1
medium sharp sand**	125kg	2	125kg	2
Ronafix	14 litres	3:1*	9 litres	1:1*
water (approx)	4 litres		9 litres	
yield (approx) m ³	0.1		0.1	

* Ronafix: water gauging liquid added to cement and sand to achieve workability.

** These mix designs are based on the use of dry sand. The amount of water in the sand or aggregate must be taken into account when calculating the quantity of water to use.

*** typically up to 35mm of repair mortar can be applied in to pockets and voids in a single layer depending on shape and size of repair and application technique.

RONAFIX:CEMENT PRIMER MIX DESIGN

	by weight	by volume
Ronafix	1 litre	1
cement	1 kg	1
coverage	3-4m ² per litre of Ronafix	

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Preparation

All concrete and defective material identified for removal must be removed back to a suitable substrate which is sound and stable and which will accept the repair mortar.

Reinforcing steel in the repair area must be exposed, and concrete cut back along the length of the steel to expose not less than 25mm of clean uncorroded steel. Loose rust and scale must be removed (eg. by the use of wire brushing and/or emery cloth or sand paper). Cut around the periphery of spalled areas to a minimum depth of 6mm at 90° to avoid dished edges and feather edged repairs.

The concrete must be removed around the steel to allow not less than 15mm of repair mortar to be placed around the steel. Corroded steel must be replaced where considered necessary by the engineer.

All removal of concrete and steel must be carried out in accordance with the specifiers recommendations.

All surfaces must be cleaned to remove loose dust, debris and surface contamination which may prevent adhesion of repair mortar to concrete and steel.

When repairing chloride contaminated concrete steel must be grit blasted back to bright steel; the method used to prepare concrete surfaces may differ and the Ronacrete Technical Department should be consulted.

Damping

Following preparation of concrete and steel, thoroughly damp all concrete surfaces to be repaired. Remove any standing water. Water used must be clean and of potable quality.

Priming

Brush apply a 1:1 Ronafix:cement primer coat to the steel and allow to become tacky, not dry. If the primer dries it must be thoroughly scarified and reapplied.

When priming coat on steel is tacky, brush a single coat of primer on to the damp concrete or substrate 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 Ronafix 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 the Ronafix modified mortar and 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 nature of the substrate, the shape and size of area being repaired and mixing and application technique.

Ronafix modified mortars can be mixed by hand or machine. Machine mixing will more easily provide a mortar with even dispersion of mix

components and a lower water/cement ratio. The use of a forced action mixer (eg. Creteangle or drill and paddle) will provide optimum performance; free fall mixers cause the mortar to ball up with a resultant reduction in performance and must not be used.

Placing

Apply the mortar 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 nature of the substrate, the shape and size of area being repaired and mixing and application technique.

Materials may be applied using a combination of hand packing or traditional tools. The concrete repair mortar must be well compacted to prevent honeycombing and voids.

Apply the concrete repair mortar in successive layers to achieve the required thickness. Scratch the face of intermediate layers and apply a coat of Ronafix:cement primer immediately prior to applying the next layer.

If applying a protective or decorative coating such as Joltec or Zolpacryl leave the final layer with a sponged or wood float finish to aid adhesion.

Cure the finished repair with Monocure 50 or tight fitting polythene.

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.

Ronafix

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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.



manufacturer of specialist construction products

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