

## Ronafix for Renders

Admixture for weatherproof renders and waterproof / tanking renders



### FEATURES

- waterproof (mix design E)
- weatherproof (mix design A)
- frostproof
- high compressive strength
- high tensile strength
- high flexural strength

### Description

Ronafix is a single part modified styrene butadiene liquid additive for cement mortars which enhances physical and chemical properties, allows mortars to be placed in thin section, provides waterproofing and resistance to frost and promotes adhesion to building surfaces.

Mortars containing Ronafix are used for a wide range of applications where thin high strength high performance mortars are required. Typical minimum application depth is 10mm.

There are 2 mix designs when using Ronafix as a waterproof render. Ronafix Mix Design A is used for weatherproofing and Ronafix Mix Design E is used for tanking.

### Physical Properties (Mix A)

#### Compressive Strength

1 day	38N/mm <sup>2</sup>
3 days	45N/mm <sup>2</sup>
7 days	56N/mm <sup>2</sup>
28 days	70N/mm <sup>2</sup>

#### Tensile Strength

7 days	5.0N/mm <sup>2</sup>
28 days	7.1N/mm <sup>2</sup>

#### Flexural Strength

7 days	12.9N/mm <sup>2</sup>
28 days	16.2N/mm <sup>2</sup>

### Physical Properties (Mix E)

#### Compressive Strength

1 day	22N/mm <sup>2</sup>
3 days	34N/mm <sup>2</sup>

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<b>Physical Properties (Mix E) (continued)</b>	<b>7 days</b>	<b>42N/mm<sup>2</sup></b>
	<b>28 days</b>	<b>53N/mm<sup>2</sup></b>
	<b>Tensile Strength</b>	
	<b>7 days</b>	<b>5.7N/mm<sup>2</sup></b>
	<b>28 days</b>	<b>8.4N/mm<sup>2</sup></b>
	<b>Flexural Strength</b>	
<b>7 days</b>	<b>15.8N/mm<sup>2</sup></b>	
<b>28 days</b>	<b>19.1N/mm<sup>2</sup></b>	
<b>Compression tests:</b>	<b>100mm cubes</b>	
<b>Flexural tests:</b>	<b>100 x 25mm x 25mm prisms</b>	
<b>Tensile tests:</b>	<b>dumbell specimens</b>	
<b>Test Authority:</b>	<b>British Precast Concrete Federation CMC Laboratories W &amp; C French Ltd Ronacrete Laboratories</b>	

Laboratory Results: Results shown are in N/mm<sup>2</sup>. Maximum laboratory strengths are achieved by casting and curing cubes in ideal working conditions; site strengths will be lower.

<b>Mix Design Ronafix Mix A Weatherproof Renders</b>	<b>By weight</b>	
	<b>Cement</b>	<b>50kg</b>
	<b>Medium sharp sand</b>	<b>125kg</b>
	<b>Ronafix</b>	<b>9 litres</b>
	<b>Water</b>	<b>9 litres (approximately)</b>

<b>Mix Design Ronafix Mix E Tanking</b>	<b>By weight</b>	
	<b>Cement</b>	<b>50kg</b>
	<b>Medium sharp sand</b>	<b>125kg</b>
	<b>Ronafix</b>	<b>14 litres</b>
	<b>Water</b>	<b>4 litres (approximately)</b>

### Instructions for Use

#### Preparation

The substrate on which the Ronafix render is being placed must be structurally sound and stable and suitable to receive and support a strong render. Surfaces should ideally be prepared by recyclical shot blasting, water/grit blasting or similar means to expose the aggregate and provide a mechanical key. All grease, oil, dirt and deleterious material must be removed by vacuuming.

#### Damping

The prepared surface must be thoroughly dampened with clean water. All surplus and standing water must be removed before the primer is applied.

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#### Instructions for Use (continued)

##### Priming

Brush apply a primer of 1:1 Ronafix : cement to the damp surface immediately before applying the Ronafix modified mortar. Mix the primer thoroughly and apply evenly over the surface ensuring total and uniform coverage. Only prime an area which can be covered by the render within the working time of the primer.

**Note that the primer must not be allowed to dry. If it dries it must be thoroughly cross hatch scratched 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

As soon as the material is mixed render it onto the wet/tacky primer, using conventional plastering techniques ensuring total contact with the substrate and ensuring the render does not slump or slide away from the surface.

If applying two or more coats of Ronafix render apply each layer after the previous layer has firmed up sufficiently to support its weight without slumping or pulling away. Keying and priming between layers is necessary to ensure total adhesion through the render.

When applying waterproof renders using mix design E it is necessary to apply not less than two coats, each not less than 10mm thick. Joints must be staggered and the render should be carried down on to the floor to form a coving. The joint between a waterproof render and a waterproof screed must also be staggered.

##### Curing

As soon as possible after finishing the surface cure the surface with Monocure 50. Alternatively use tight fitting polythene to prevent rapid moisture loss and surface cracking and crazing.


#### Site Attendance

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<p>BS EN 934-2 BS EN 934-3 Concrete Admixture Masonry Mortar Admixture</p>
<p><b>Product: Ronafix</b> <b>Chloride ion content: <math>\leq 0.1\%</math></b> <b>Alkali Content: <math>\leq 0.5\%</math></b> <b>Dangerous Substances: None</b></p>

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