





Admixture for weatherproof renders and waterproof / tanking renders



#### FEATURES

- below ground structures
- internal and external application
- suitable for use on concrete, brickwork, blocks
- highly elastic, elongation at break 180%
- excellent adhesion; pull off > 1.0N/mm<sup>2</sup>
- easy to use
- water based

#### Description

Ronafix is a BBA Approved 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 6mm.

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 3 days 7 days 28 days	38N/mm <sup>2</sup> 45N/mm <sup>2</sup> 56N/mm <sup>2</sup> 70N/mm <sup>2</sup>
	Tensile Strength 7 days 28 days	5.0N/mm² 7.1N/mm²
	Flexural Strength 7 days 28 days	12.9N/mm <sup>2</sup> 16.2N/mm <sup>2</sup>
Physical Properties (Mix E)	Compressive Strength 1 day 3 days	22N/mm <sup>2</sup> 34N/mm <sup>2</sup>

# Waterproofing and Tanking

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Other Ranges—Resin Bound and Bonded Surfacing, Concrete Repair and Coatings, Screeds, and, Flooring and Bedding



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Physical Properties (Mix E) 7 days 42N/mm<sup>2</sup> 28 days 53N/mm<sup>2</sup> (continued) **Tensile Strength** 7 days 5.7N/mm<sup>2</sup> 28 days 8.4N/mm<sup>2</sup> **Flexural Strength** 15.8N/mm<sup>2</sup> 7 days 19.1N/mm<sup>2</sup> 28 days **Compression tests:** 100mm cubes Flexural tests: 100 x 25mm x 25mm prisms Tensile tests: dumbell specimens **Test Authority: British Precast Concrete Federation CMC** Laboratories W & C French Ltd **Ronacrete Laboratories** 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. By weight Mix Design Ronafix Mix A Cement 50kg **Weatherproof Renders** Medium sharp sand 125kg Ronafix 9 litres Water 9 litres (approximately) By weight Mix Design Ronafix Mix E Cement 50kg Tanking Medium sharp sand 125kg **Ronafix** 14 litres Water 4 litres (approximately) 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.

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Instructions for Use (continued)

#### Damping

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

#### **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 6mm 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.

**BBA Certification** 

Ronafix has been tested by the British Board of Agrement for its waterproofing properties and Certificate No. 86/1651 has been issued for the application of external renders.

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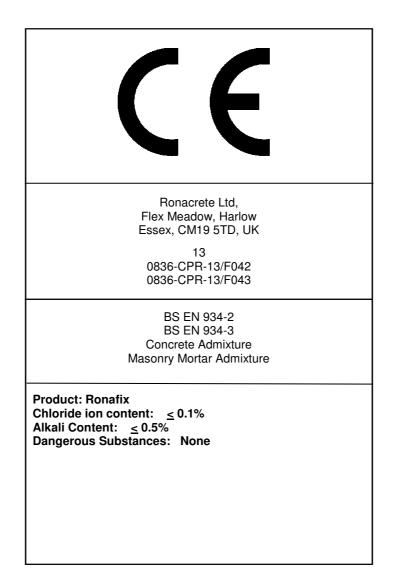


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**Site Attendance** 

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