Ronacrete
WORLD CLASS MANUFACTURER

Ronafix SBR (Renders)

Admixture for weatherproof renders and waterproof / tanking renders

FEATURES

- **High solids content SBR admixture for multiple applications. Refer to separate data sheets for:**
  - **Ronafix (Screeds)**
  - **Ronafix (Bedding)**
  - **Ronafix (Concrete Repair)**
- **waterproof (Mix Design E)**
- **weatherproof (Mix Design A)**
- **frostproof**
- **high compressive strength**
- **high tensile strength**
- **high flexural strength**

Description

Ronafix SBR 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 SBR 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 SBR as a waterproof render. Ronafix Mix Design A is used for weatherproofing and Ronafix Mix Design E is used for tanking.

Typical substrates for Ronafix SBR renders are brickwork, blockwork and concrete, following appropriate preparation (refer to instructions for use)

Mix Designs & Physical Properties

All quoted data on the following page is based on tests conducted at 20°C

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/mm². Maximum laboratory strengths are achieved by casting and curing cubes in ideal working conditions; site strengths will be lower.

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Mix Designs & Physical Properties (continued)

Mix Design	Mix A	Mix E
Cement (CEM II 42.5)	50kg	50kg
0/4mm sand	125kg	125kg
Ronafix SBR	9 litres	14 litres
Water addition	See note below	See note below
Yield	0.1m^3	0.1m^3

Compressive Strength		
1 day	38N/mm^2	22N/mm^2
7 days	56N/mm^2	42N/mm^2
28 days	70N/mm^2	53N/mm^2

Tensile Strength		
7 days	5.0N/mm^2	5.7N/mm^2
28 days	7.1N/mm^2	8.4N/mm^2

Flexural Strength		
7 days	12.9N/mm^2	15.8N/mm^2
28 days	16.2N/mm^2	19.1N/mm^2

Note: Water addition
Water addition will depend on the sand water content. To test for correct consistency a ball should be made of the mortar, squeezing of the ball should not produce free liquid. When the ball is pulled apart it should separate in two pieces without crumbling.

Instructions for Use

Preparation
The substrate on which the Ronafix SBR 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.

Priming
Brush apply a primer of 1:1 Ronafix SBR : cement to the damp surface immediately before applying the Ronafix SBR 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.

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Instructions for Use (continued)

Mixing
Mix the Ronafix SBR 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 SBR 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 SBR 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 Ronacrete Curing Membrane. Alternatively use tight fitting polythene to prevent rapid moisture loss and surface cracking and crazing.

Working Temperatures

Ronafix SBR renders can be used in most weather conditions and in a wide temperature range, typically from +5°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. In cold weather the surface temperature of the laid render (not the air temperature) should be maintained at above 5°C during construction and for four to five days after laying. In this way the render will normally achieve sufficient strength to resist damage by freezing.

Packaging

Ronafix SBR is supplied in 5 litre, 25 litre, 210 litre and 1000 litre containers.

Shelf Life and Storage

Ronafix SBR should be stored unopened between 5°C and 25°C in dry warehouse conditions and out of direct sunlight. Do not allow to freeze. In these conditions shelf life is approximately 6 months.

Health and Safety

Refer to Safety Data Sheet.

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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.

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