

# Ronacrete

## Ronafix

### Technical Data Sheet



Certificate No. 89/2150

## Admixture for thin bonded, floating & unbonded screeds and toppings

### FEATURES

- High performance polymer admixture for floor screeds
- Thin bonded, high strength toppings
- Floating & unbonded screeds
- Levelling screeds and screeds to falls
- Water proof/water resistant mixes
- Minimum 6-10mm application depth, depending on aggregate size

### SPECIFICATION CLAUSES

#### 1. Floor Screed and Floor Repair (6-50mm)

The floor screed / repair shall be Ronafix Mix A by Ronacrete Ltd, telephone +44 (0) 1279 638700. The primer shall be Ronafix : cement primer. The screed shall be laid at (state thickness - note min. is 6mm). All materials to be applied in accordance with manufacturers instructions.

#### 2. Floor Screed and Floor Repair (25mm+)

The floor screed / repair shall be Ronafix Mix A1 by Ronacrete Ltd, telephone +44 (0) 1279 638700. The primer shall be Ronafix : cement primer. The screed shall be laid at (state thickness - note min. is 25mm). All materials to be applied in accordance with manufacturers instructions.

#### 3. Wearing Screed and Floor Repair (15-50mm)

The wearing screed / repair shall be Ronafix Mix B by Ronacrete Ltd, telephone +44 (0) 1279 638700. The primer shall be Ronafix : cement primer. The screed shall be laid at (state thickness - note min. is 15mm). All materials to be applied in accordance with manufacturers instructions.

#### 4. Wearing Screed and Floor Repair (25mm+)

The wearing screed / repair shall be Ronafix Mix B1 by Ronacrete Ltd, telephone +44 (0) 1279 638700. The primer shall be Ronafix : cement primer. The screed shall be laid at (state thickness - note min. is 25mm). All materials to be applied in accordance with manufacturers instructions.

#### 5. Floating Floor Screed and Floor Repair (35mm+)

The floating floor screed / repair shall be Ronafix Mix F by Ronacrete Ltd, telephone +44 (0) 1279 638700. . The screed shall be laid at (state thickness - note min. is 35mm). All materials to be applied in accordance with manufacturers instructions.

#### 6. Fine Concrete Screed and Floor Repair (25mm+)

The fine concrete screed / repair shall be Ronafix Mix G by Ronacrete Ltd, telephone +44 (0) 1279 638700. The primer shall be Ronafix : cement primer. The screed shall be laid at (state thickness - note min. is 25mm).

### Description

Ronafix screeds are site batched screeding mortars and fine concretes. The mix design for each is Ronafix admixture, cement, medium grade sharp sand, aggregate as determined by the mix design, plus water. The components are measured by weight or by volume on site and mixed to form the screed.

They are used with a primer of Ronafix and cement which achieves monolithic adhesion to correctly prepared concrete or screeds.

Ronafix screeds are used to lay new screeds and toppings as thin as 6mm bonded or 35mm unbonded or floating. The cured mortar bonds securely to suitably prepared surfaces and is water resistant.

### Advantages

- BBA Certified and tested screed admixture system
- High performance wearing screeds
- Early drying underlay screeds
- Thin floating screeds
- Track record since 1969
- Monolithic adhesion to concrete & screeds

### Working Temperatures

Ronafix 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. Materials should ideally be stored between 10°C and 20°C before use.

### Health and Safety

The mix designs contain cement protective clothing, such as goggles, masks, overalls and barrier cream/gloves is recommended, to prevent any effect from prolonged skin contact, inhalation or ingestion.

### First Aid

In the event of skin contact, wash with soap and water. Seek medical advice if irritation or pain occurs. In the event of eye contact, irrigate with plenty of clean water and seek immediate medical advice. In the event of ingestion, do not induce vomiting. Seek immediate medical advice.

### Storage

Ronafix 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 6 months.

### Technical and Test Data

Note that all quoted data is based on laboratory tests conducted at 20°C. Cubes, tested at 28 days, are 100mm and air cured. Results shown are MAXIMUM laboratory strengths achieved by casting and curing cubes in ideal working conditions; site strengths will be lower.

### 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.

### INSTRUCTIONS FOR USE

#### Preparation

The substrate on which the Ronafix screeds are being placed must be structurally sound and stable and suitable to receive a high strength topping. Surfaces should ideally be vacuum shot blasted or similar to expose the aggregate and provide a mechanical key. All grease and oil must be removed. Dust, debris and loose material must be removed by vacuuming. Any defect or weakness in the substrate may result in failure of the topping placed in contact with it. The recommendations given in BS8204-3: 2004 Part 7 should be followed, to assess the suitability of the substrate and maximise the performance of the topping. Note the minimum and maximum application depths for each mix design. Surfaces must be cut back to allow the minimum depth of mortar to be placed without feather edging.

#### Damping

The prepared surfaces must be thoroughly damped with clean water. Very porous surfaces may require soaking for up to 24 hours. All surplus water must be removed before the primer is applied.

#### Priming

Brush apply a coat of 1:1 Ronafix : cement primer to the damp surface immediately before applying the screed. Mix the primer thoroughly and apply evenly over the surfaces ensuring total and uniform coverage taking care to avoid ponding. Only prime an area of floor which can be covered by the mortar within the working time of the primer.

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

#### Mixing

Ronafix screeds should be mixed by forced action mixer or high powered, slow speed drill and suitable spiral paddle. 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 Screedmaster) will provide optimum performance; free fall mixers cause the mortar to ball up with a resultant reduction in performance and their use is not recommended.

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Depending on the quality of mixer used and the moisture content of sands and aggregates it may not be necessary to add the full amount of water specified in the mix design. When using an efficient mixer, a mixing time of 2-3 minutes is normally sufficient. Do not overmix as this will entrain air and may affect performance. It is essential to the performance of the screed that there is sufficient gauging liquid in the mix and that the correct amount of Ronafix is used. The consistency of the screed must not be semi-dry, good compaction cannot be achieved with a semi-dry mix. To test for correct consistency, make a ball of the mixed material. If the ball can be pulled apart without crumbling, the mortar will contain sufficient gauging liquid to fully hydrate the cement and allow proper compaction. Once mixed the mortar should be used as quickly as possible.

### Placing

As soon as the mortar is mixed, it should be placed onto the wet/tacky primer, compacted, ruled and closed with a float or trowel. Avoid overworking the surfaces, this will increase the tackiness of the mortar. The float should be regularly washed, to prevent build up of polymer/cement paste. Some Ronafix Wearing Screeds contain granite and may need to be polished and finished by final trowelling after placing.

Screeds and toppings with an overall thickness greater than the maximum depth per layer, 50mm approximately, must be placed monolithically (wet on wet) in more than one layer to ensure compaction. Each layer should be of approximately equal thickness and using the same mix design. To ensure satisfactory adhesion the lower layer(s) should be lightly combed, raked or roughened to provide a key for the next layer. Should intermediate layers dry, a priming coat must be applied between layers.

Joints should be formed in the floor screed/topping in line with expansion, contraction and movement joints and, on suspended floors, over support positions to accommodate movement. Isolation joints should also be placed around the perimeter of floor slabs and around columns, manholes and fixed bases. Joints should also be formed between any hot and cold areas of the floor. For further information refer to BS8204-3.

### Curing

As soon as possible after finishing the surface, cure with Monocure 50. Alternatively use tight fitting polythene leaving in place for at least 24 hours to prevent rapid moisture loss and surface cracking and crazing. Take care not to damage the surface. The use of Monocure is preferred, because curing may commence immediately after trowelling is complete.

### Using the surface

Ronafix BBA Approved screeds, toppings and repairs can receive foot traffic after 24-36 hours (typically at 20°C) and after 3-5 days (typically at 20°C) heavy traffic may be allowed. This time will vary according to temperature, amount of liquid added during mixing, air circulation and general conditions.

### Overlaying with vinyl or other coverings

The time at which floor coverings can be laid over a Ronafix floor is dependent on residual moisture content. Testing for relative humidity (RH) at the surface is an accepted non-destructive means of determining residual moisture content. Typically, a Ronafix screed will achieve 75% RH after 10 days air curing at 50mm thickness. Measure RH with a correctly calibrated hygrometer.

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## Screed Mixes/ Minimum & Maximum thickness

A	A1	B	B1	F	G
Screed or repair	Screed or repair	Granolithic topping or repair	Granolithic topping or repair	Floating screed or unbonded screed	Fine concrete
6mm/50mm	26mm minimum	15mm/50mm	26mm minimum	35mm minimum	26mm minimum

## Physical properties @ 20°C - typical laboratory strengths

Ronafix Screeds Mixes	A			B			F			G			
	Age	comp	tens	flex	comp	tens	flex	comp	tens	flex	comp	tens	flex
1 day	38	-	-	37	-	-	16	-	-	23	-	-	-
3 day	45	-	-	n/a	-	-	n/a	-	-	-	-	-	-
7 day	56	5.0	12.9	59	5.7	9.8	36	3.3	7.7	47	-	-	-
14 day	n/a	-	-	63	-	-	n/a	-	-	n/a	-	-	-
28 day	70	7.1	16.2	71	6.7	11.5	47	4.5	9.5	58	-	-	-

Mix Designs for Ronafix		cement	medium sharp sand	6-3mm granite chips	10-5mm pea shingle	10-5mm granite chips	Ronafix	water (approx)	yield m <sup>3</sup> (approx)	coverage (approx)
MIX DESIGN A	by weight	50kg	125kg	-	-	-	9 litres	9 litres	0.1	10m <sup>2</sup> @10mm
	by volume	1	2	-	-	-	1:1 with water	-	-	-
MIX DESIGN A1	by weight	50kg	150kg	-	-	-	4.5 litres	14 litres	0.1	10m <sup>2</sup> @10mm
	by volume	1	2.5	-	-	-	1:3 with water	-	-	-
MIX DESIGN B	by weight	50kg	75kg	75kg	-	-	9 litres	9 litres	0.1	10m <sup>2</sup> @10mm
	by volume	1	1.25	1.25	-	-	1:1 with water	-	-	-
MIX DESIGN B1	by weight	50kg	75kg	-	-	75kg	4.5 litres	14 litres	0.1	7m <sup>2</sup> @15mm
MIX DESIGN F	by weight	50kg	150kg	-	-	-	4.5 litres	13.5 litres	0.1	10m <sup>2</sup> @10mm
	by volume	1	2.5	-	-	-	1:3 with water	-	-	-
MIX DESIGN G	by weight	50kg	100kg	-	100kg	-	4.5 litres	14 litres	0.14	5.6m <sup>2</sup> @25 mm
	by volume	1	1.5	-	1.5	-	1:3 with water	-	-	-

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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.



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