

Ronafix Pre-packed Screeds

The use of Ronafix Pre-packed Screeds for floor screeds and floor repairs



FEATURES

- pre-packed formulations offer assurance of consistent high performance
- ready for foot traffic after 24 hours
- rapid drying—can receive floor coverings such as vinyl, tiles and carpet after 10 days @ 50mm thick
- excellent wear resistance
- aggregate grading permits laying of bonded screeds from 6mm thickness
- unbonded and floating screeds from 35mm minimum thickness
- compatible with underfloor heating systems
- excellent resistance to passage of water and water vapour

Description

Ronafix Pre-packed Screeds are supplied as a pre-packed, ready to use mortar for laying floor screeds. They are supplied complete with all the correct components in one pack, together with a bottle of polymer gauging liquid. They are used with Ronacrete Standard Primer which gives monolithic adhesion to all correctly prepared surfaces.

Ronafix Pre-packed 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.

Uses

Ronafix Pre-packed Screed 6-50mm

Screed or screed repair from 6-50mm

Ronafix Pre-packed Screed 25mm+

Screed or screeds repair from 25mm

Ronafix Pre-packed Wearing Screed 15-25mm

Granolithic Topping or repair from 15-25mm

Ronafix Wearing Screed 25mm+

Granolithic Topping or repair from 25mm

Ronafix Pre-packed Floating Screed 35mm+

Floating screed from 35mm

Ronafix Pre-packed Fine Concrete 25m+

Fine concrete screed from 26mm

Ronafix Pre-packed Screeds

The use of Ronafix Pre-packed Screeds for floor screeds and floor repairs

Physical Properties Ronafix Pre-packed Screed 6-50mm	Compressive Strength	
	1 day	38N/mm ²
	7 days	56N/mm ²
	28 days	70N/mm ²
	Tensile Strength	
	7 days	5.0N/mm ²
	28 days	7.1N/mm ²
	Flexural Strength	
	7 days	12.9N/mm ²
28 days	16.2N/mm ²	
Physical Properties Ronafix Pre-packed Screed 25mm+	Compressive Strength	
	1 day	16N/mm ²
	7 days	36N/mm ²
	28 days	47N/mm ²
	Tensile Strength	
	7 days	3.3N/mm ²
	28 days	4.5N/mm ²
	Flexural Strength	
	7 days	7.7N/mm ²
28 days	9.5N/mm ²	
Physical Properties Ronafix Pre-packed Wearing Screed 15-25mm	Compressive Strength	
	1 day	37N/mm ²
	7 days	59N/mm ²
	28 days	71N/mm ²
	Tensile Strength	
	7 days	5.7N/mm ²
	28 days	6.7N/mm ²
	Flexural Strength	
	7 days	9.8N/mm ²
28 days	11.5N/mm ²	
Physical Properties Ronafix Pre-packed Wearing Screed 25mm+	Compressive Strength	
	1 day	16N/mm ²
	7 days	36N/mm ²
	28 days	47N/mm ²

Ronafix Pre-packed Screeds

The use of Ronafix Pre-packed Screeds for floor screeds and floor repairs

Physical Properties Ronafix Pre-packed Floating Screed 35mm+	Compressive Strength	
	1 day	16N/mm ²
	7 days	36N/mm ²
	28 days	47N/mm ²
	Tensile Strength	
	7 days	3.3N/mm ²
	28 days	4.5N/mm ²
	Flexural Strength	
	7 days	7.7N/mm ²
28 days	9.5N/mm ²	

Physical Properties Ronafix Pre-packed Fine Concrete 25mm+	Compressive Strength	
	1 day	23N/mm ²
	7 days	47N/mm ²
	28 days	58N/mm ²

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.

Coverage (per 25kg pack)	Ronafix Pre-packed Screed 6-50mm	1.85m² @ 6mm
	Ronafix Pre-packed Screed 25mm+	0.44m² @ 25mm
	Ronafix Pre-packed Wearing Screed 15-25mm	0.74m² @ 15mm
	Ronafix Pre-packed Wearing Screed 25mm+	0.44m² @ 25mm
	Ronafix Pre-packed Floating Screed 35mm	0.31m² @ 35mm
	Ronafix Pre-packed Fine Concrete 25mm+	0.44m² @ 25mm

Instructions for Use

Preparation

The substrate on which the Ronafix Pre-packed 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

Ronafix Pre-packed Screeds

The use of Ronafix Pre-packed Screeds for floor screeds and floor repairs

Instructions for Use (continued)

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 Ronacrete Standard Primer to the damp surface immediately before applying the Ronafix Pre-packed 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. The coverage rate of Ronacrete Standard Primer is 1.5-2m² per kg.

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

Mixing

Ronafix Pre-packed 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. 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. 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. Ronafix Pre-packed 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.

Ronafix Pre-packed Screeds

The use of Ronafix Pre-packed Screeds for floor screeds and floor repairs

Instructions for Use (continued)

Curing

As soon as possible after finishing the surface, cure with Ronacrete Curing Membrane. 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 Ronacrete Curing Membrane is preferred, because curing may commence immediately after trowelling is complete.

Using the Surface

Ronafix 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) by heavy traffic. This time will vary according to temperature, amount of liquid added during mixing, air circulation and general conditions.

Overlaying

The time at which floor coverings can be laid over a Ronafix floor is dependent on residual moisture content and relative humidity (RH) at the surface. This is typically after 10 days air curing at 50mm thickness. Measure RH with a hygrometer.

Working Temperatures

Ronafix Pre-packed Screeds 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.

Shelf Life and Storage

Ronafix Pre-packed Screeds 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.

Health and Safety

Ronafix Pre-packed Screeds are non-hazardous when used in accordance with good practice, although protective clothing, such as goggles, masks, overalls and gloves is recommended, to prevent any effect from prolonged skin contact, inhalation or ingestion.

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.

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

Ronafix Pre-packed Screeds

The use of Ronafix Pre-packed Screeds for floor screeds and floor repairs

Site Attendance (continued)

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.

Ronacrete Ltd, Flex Meadow, Harlow Essex, CM19 5TD, UK 13
BS EN 13813 Floor Screed
Product: Ronafix Pre-packed Screed 6-50mm Reaction to Fire: A2-s1,d0 Release of Corrosive Substances: None Water Permeability: < 0.40kg / m2 . min0.5 Compressive Strength: ≥ C50 Flexural Strength: ≥ F7 Wear Resistance BCA method: AR1 Release of Dangerous Substances: Refer to Safety Data Sheet

Ronacrete Ltd, Flex Meadow, Harlow Essex, CM19 5TD, UK 13
BS EN 13813 Floor Screed
Product: Ronafix Pre-packed Screed 25mm+ Reaction to Fire: A2-s1,d0 Release of Corrosive Substances: None Capillary Water Absorption: < 0.40kg / m2 . min0.5 Compressive Strength: ≥ C40 Flexural Strength: ≥ F5 Wear Resistance BCA method: AR1 Release of Dangerous Substances: Refer to Safety Data Sheet

Ronafix Pre-packed Screeds

The use of Ronafix Pre-packed Screeds for floor screeds and floor repairs

Ronacrete Ltd, Flex Meadow, Harlow Essex, CM19 5TD, UK 13	Ronacrete Ltd, Flex Meadow, Harlow Essex, CM19 5TD, UK 13
BS EN 13813 Floor Screed	BS EN 13813 Floor Screed
Product: Ronafix Pre-packed Wearing Screed 15-25mm Reaction to Fire: A2-s1,d0 Release of Corrosive Substances: None Water Permeability: < 0.40kg / m2 . min0.5 Compressive Strength: ≥ C50 Flexural Strength: ≥ F5 Wear Resistance BCA method: AR1 Release of Dangerous Substances: Refer to Safety Data Sheet	Product: Ronafix Pre-packed Wearing Screed 25mm+ Reaction to Fire: A2-s1,d0 Release of Corrosive Substances: None Capillary Water Absorption: < 0.40kg / m2 . min0.5 Compressive Strength: ≥ C50 Flexural Strength: ≥ F5 Wear Resistance BCA method: AR1 Release of Dangerous Substances: Refer to Safety Data Sheet

Ronafix Pre-packed Screeds

The use of Ronafix Pre-packed Screeds for floor screeds and floor repairs

Ronacrete Ltd, Flex Meadow, Harlow Essex, CM19 5TD, UK 13	Ronacrete Ltd, Flex Meadow, Harlow Essex, CM19 5TD, UK 13
BS EN 13813 Floor Screed	BS EN 13813 Floor Screed
Product: Ronafix Pre-packed Floating Screed 35mm+ Reaction to Fire: A2-s1,d0 Release of Corrosive Substances: None Water Permeability: < 0.40kg / m² . min0.5 Compressive Strength: ≥ C40 Flexural Strength: ≥ F5 Wear Resistance BCA method: AR1 Release of Dangerous Substances: Refer to Safety Data Sheet	Product: Ronafix Pre-packed Fine Concrete 25mm+ Reaction to Fire: A2-s1,d0 Release of Corrosive Substances: None Capillary Water Absorption: < 0.40kg / m² . min0.5 Compressive Strength: ≥ C50 Flexural Strength: ≥ F2 Wear Resistance BCA method: AR2 Release of Dangerous Substances: Refer to Safety Data Sheet

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.