Ronafix Pre-packed Floating Screed 35mm+

Polymer modified floating screed

Description
Ronafix Pre-packed Floating Screed 35mm+ is supplied as a pre-packed, two component, ready to use mortar for laying screeds on rigid thermal or acoustic insulation. Ronafix Pre-packed Floating Screed 35mm+ is supplied complete with all the blended dry components in a bag and a bottle of polymer gauging liquid.

Ronafix Pre-packed Floating Screed 35mm+ is used to lay minimum 35mm floating screeds for residential applications. Screed thickness should be increased for medium to heavy duty use, The screed is resistant to water, frost, and medium to heavy wear when covered with a suitable flooring.

Features
- **factory blended for consistency**
- **must be covered with flooring**
- **ready for foot traffic after 24 hours**
- **rapid drying**
- **floating screeds from 35mm**
- **compatible with wet UFH systems from 40mm**
- **good resistance to passage of water**
- **can be laid to falls**

Packaging
25kg total pack size (22.6kg bag & 2.4kg liquid)

Coverage
Coverage per pack	0.31m² @ 35mm 0.27m² @ 40mm 0.22m² @ 50mm 0.14m² @ 75mm
Yield per pack	11 litres
Pack required per m³	91 packs approximately

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

Strength data (BS EN 13892-2)			
	Compressive	Tensile	Flexural
1 day	> 15N/mm²		
7 days	> 30N/mm²	> 3.0N/mm²	> 7.0N/mm²
28 days	> 40N/mm²	> 4.0N/mm²	> 9.0N/mm²

Minimum / maximum thicknesses	
Floating	Minimum 35mm*
Heated	Minimum 40mm**
Maximum product thickness	No maximum

Notes:
* minimum application thickness for light duty usage (residential)
** minimum application thickness for light duty usage (residential) when used with 16mm diameter underfloor heating pipework. Minimum 20mm cover to pipework to be maintained.

Drying Data
The drying data is based on drying at 20ºC and 60±5% relative humidity. Low temperature and high humidity will delay drying. If the screed is covered with a curing membrane such as polythene, then the drying time starts when the membrane is removed.

The relative humidity (RH) at the surface of the screed should be measured with a hygrometer, as required by BS 8203 Annex B, before proceeding to lay floor coverings. Drying times on site will vary according to site conditions.

Accelerated drying of the screed by forced heating or ventilation should not be used. Gentle background heating to maintain temperature of 15ºC to 20ºC after curing is acceptable (BS 8204-3, 8.8.4)

Drying data (time to achieve 75%RH)	
40mm thickness	7 days
90mm thickness	12 days

Working temperatures
Ronafix screeds 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 screed (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 screed will normally achieve sufficient strength to resist damage by freezing.

Preparation
For floating application, ensure the base provides a level bearing surface for the insulation to prevent rocking of the boards. Ensure the insulation is sufficiently strong to support the anticipated load transmitted through the screed without deforming. Apply a suitable slip membrane (500 gauge polythene) over the insulation prior to the application of the screed.

Position isolation joints in doorways and around all perimeters and openings in the screed to prevent restraint by fixed elements, thus ensuring free movement of the screed.

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Mixing
Ronafix Pre-packed Floating Screed 35mm+ must be mixed by forced action mixer (e.g. CreteAngle, Baron or similar) or high powered, slow speed drill and suitable spiral paddle (MR4 or similar) for approximately 3 minutes, shorter mixing times will not fully disperse the components and workability will be reduced. Free fall mixers **must not** be used. The product is not suitable for pumping.

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. Crumbling of the mortar is an indication of insufficient gauging liquid. 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 substrate, fully compacted, ruled and closed with a float or trowel. Avoid overworking the surface, this will increase the tackiness of the mortar. The float should be regularly washed, to prevent build up of polymer/cement paste. Working time is approximately 45 minutes at 20ºC.

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. 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 of Ronacrete Standard Primer must be applied between layers.

Bay proportions
Screed bay proportions should ideally be 1:1 length to width and should not exceed 3:2 to avoid the risk of stress relief cracking, the risk increases with the difference between bay length and width. Stress relief joints may be cut into fresh screed with the edge of a steel float and trowelled over to produce a smooth surface, or formed by laying separate bays. The depth of the cut should extend to at least 50% of the screed thickness unless steel mesh, heating pipes or conduits require a shallower cut. Stress relief joints may also be formed by early age saw cutting but care must be taken to ensure that cutting is carried out before stress relief cracks can form. Where rigid finishes such as tiles are to be laid, bay joints should be positioned to coincide with tile joints and the use of an uncoupling layer should be considered.

Joints
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.

Expansion joints for heated screeds to receive most types of rigid floorings and some types of resilient floorings should be positioned so that screed bays are no larger than 40m² with a length no greater than 8m, see BS 8204-1 Design Considerations. Separate heating zones should be divided by expansion joints

Curing
Curing must commence as soon as possible after finishing the screed. Cure the screed with tight fitting polythene, applied as early as it is possible to do so without damaging the surface. Cover for 24 hours then remove and air cure.

Using the surface
Ronafix Pre-packed Floating Screed 35mm+ can typically receive foot traffic after 24 hours and heavy traffic after 3-5 days at 20^0C. Allow additional time in colder conditions.

Shelf life & storage
Ronafix Pre-packed Floating Screed 35mm+ 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 & Safety
Refer to product Safety Data Sheet

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 a 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. Liability for correct installation lies with the contractor and not with Ronacrete Ltd.

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.

Ronacrete
WORLD CLASS MANUFACTURER

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