RonaScreed
SPECIALIST SCREEDS

CE 13
BS EN 13813

Ronafix Pre-packed Wearing Screed 15mm+

Bonded & unbonded polymer modified granolithic screed and screed repair

FEATURES

- factory packed for consistent high quality
- ready for foot traffic after 24 hours
- rapid drying—ready for most floorings after 10 days @ 50mm thick
- contains granite aggregate for resistance to heavy wear
- bonded screeds from minimum 15mm thickness
- unbonded screeds minimum 35mm thickness
- compatible with underfloor heating systems
- excellent resistance to passage of water and water vapour

Description

Ronafix Pre-packed Wearing Screed 15mm+ is supplied as a pre-packed, two component, ready to use mortar for laying floor screeds. Ronafix Pre-packed Wearing Screed 15mm+ is supplied complete with all the correct dry components in a bag and a bottle of polymer gauging liquid. Ronacrete Standard Primer two part polymer cement bonding agent is required for bonded screed applications.

Uses

Ronafix Pre-packed Wearing Screed 15mm+ is used to lay new granolithic screeds as thin as 15mm for heavy duty bonded application. Excellent adhesion can be achieved to suitably prepared surfaces and the screed is resistant to water, frost, and to heavy wear. The use of granolithic floating and unbonded screeds is uncommon and advice should be sought from Ronacrete Technical Department.

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.

Typical Compressive Strength

1 day	> 15N/mm²
7 days	> 45N/mm²
28 days	> 55N/mm²

Tensile Strength

7 days	≥ 5.0N/mm²
28 days	≥ 6.0N/mm²

Flexural Strength

7 days	≥ 9.0N/mm²
28 days	≥ 11.0N/mm²

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Yield

A 25kg pack will yield approximately 0.011m^3 or 1m^2 per 11mm of thickness.

Instructions for Use

Preparation
The substrate to which Ronafix Pre-packed Wearing Screed 15mm+ is to be bonded must be structurally sound and stable. Minimum compressive strength should be 25N/mm^2 and minimum pull-off strength should be 1.5N/mm^2. Surfaces should be vacuum shot blasted, planed or scabbled to expose aggregate, remove laitance 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 or screed applied to it. The recommendations given in BS8204-3 section 7 should be followed, to assess the suitability of the substrate and ensure the performance of the topping. When repairing concrete with Ronafix Pre-packed Wearing Screed 15mm+, repair perimeters must be saw cut and the concrete scabbled as required, to allow the minimum depth of mortar to be placed throughout.

Wetting
The prepared surfaces must be thoroughly wetted 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 Ronacrete Standard Primer to the damp surface immediately before applying Ronafix Pre-packed Wearing Screed 15mm+. 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. Dry primer must be thoroughly abraded and reapplied.

Mixing
Ronafix Pre-packed Wearing Screed 15mm+ 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. Once mixed the mortar should be used as quickly as possible.

Placing
As soon as the mortar is mixed, it should be applied to wet/tacky primer, 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. Joints should be formed in the floor screed/topping in line with movement joints and bay joints; on suspended floors, joints should be positioned over slab supports to accommodate movement. For further information refer to BS8204-3. It is unlikely that the desired finish to a granolithic screeds will be achieved during laying. To obtain an acceptable finish to a granolithic screed, the screeder may need to return to the hardening screed on at least one occasion for further trowelling.

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Instructions for Use (continued)

Curing
As soon as possible after finishing the surface, cure with Ronacrete Curing Membrane. Alternatively use tight fitting polythene, to be left in place for at least 24 hours, to prevent rapid moisture loss from the surface. The use of Ronacrete Curing Membrane is preferred, because curing may commence immediately after trowelling is complete. Early application of curing membrane is particularly important when the surface is exposed to sunlight and/ or drying winds.

Using the Surface

Ronafix Pre-packed Wearing Screed 15mm+, toppings and repairs can typically receive foot traffic after 24 hours and heavy traffic after 3-5 days at 20^0C. Allow more time in cold conditions.

Laying Floor Finishes

Floor finishes, including resilient flooring, tiles and resin coatings/ screeds may typically be laid after 10 days air curing at 50mm thickness, 20^0C and 60-65% relative humidity. Measure screed RH with a hygrometer in accordance with Annex A (normative) of BS 8203 Dampness testing.

Working Temperatures

Ronafix Pre-packed Wearing Screed 15mm+ can be used in most weather conditions and in a wide temperature range, typically from +5°C to 25°C. Note that at high ambient temperatures the working time of the mix will be reduced; it will be increased at lower temperatures.

Shelf Life and Storage

Ronafix Pre-packed Wearing Screed 15mm+ 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

Refer to 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.

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Floor Screed

Product: Ronafix Pre-packed Wearing Screed 15mm+
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

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
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