

RonaScreed 1 Day Overlay Pre-packed Rapid Drying Screed

Pre-packed Rapid Drying Screed



FEATURES

- rapid hardening—light foot traffic in 6 hours
- rapid drying—can receive floor coverings such as tiles, vinyl, carpet, and epoxy resin after 1 day @ 75mm thick
- apply as bonded, unbonded or floating screed
- can be applied as thin as 6mm
- rapid strength development
- compressive strength >40N/mm² after 28 days
- compatible with underfloor heating systems

Description

RonaScreed 1 Day Overlay Pre-packed Rapid Dry Screed is a pre-packed polymer modified mortar for rapid drying screeds used when laying bonded, unbonded or floating screeds prior to covering with vinyl sheet or other coverings.

The fast drying properties allow screeds to be covered with low permeability products as early as one day after application. Drying times are determined by many factors including humidity, temperature and mixing. An effective damp proof membrane must be in place.

Drying Times—10mm screed (Relative Humidity at the surface)	18 hours	85%
	24 hours	79%
	36 hours	75%

Drying Times—40mm screed (Relative Humidity at the surface)	18 hours	85%
	24 hours	77%
	36 hours	74%

Physical Properties

Compressive Strength

1 day	14N/mm ²
7 days	32N/mm ²
28 days	41N/mm ²

Flexural Strength

7 days	9.0N/mm ²
28 days	12.0N/mm ²

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Physical Properties (continued)

Tensile Strength

1 day	1.4N/mm ²
7 days	3.4N/mm ²
28 days	3.6N/mm ²

Shrinkage Coutinho ring

640 microstrains @ 28 days
No crack at 4 months

Yield and Coverage

Packs required per m³ (approx)	84 packs
Yield per pack (approx)	11.9 litres
Coverage per pack (approx)	1.98m² @ 6mm

Measuring Surface Dryness

Laboratory tests for RH and residual moisture indicate that RonaScreed 1 Day Overlay Pre-packed Rapid Dry Screed screeds will be dry enough to accept suitable vinyl and other coverings 24 hours after application. The screed should be laid and cured at 20°C and good air movement is required to ensure low air humidity.

Damp Proof Membrane

It is essential that where no effective damp proof membrane exists RonaScreed DPM is first applied. Refer to RonaScreed DPM data sheet.

Instructions for Use

Priming

When laying a bonded screed the surface must be mechanically abraded and tested to ensure it is suitable to restrain a bonded screed. Clean the substrate to remove dust and debris, damp with clean water and allow the water to soak in. Remove excess water and apply a bond coat of Ronacrete Rapid Primer well brushed into the damp surface. The screed must be laid on wet or tacky primer, dry primer must be vigorously scratched and reapplied.

Mixing

RonaScreed 1 Day Overlay Rapid Dry Screed must be machine mixed in a forced action mixer (e.g. CreteAngle pan mixer). Do not use a free fall mixer. Mix the dry components and when evenly dispersed add sufficient clean water for adequate compaction and surface finish and to ensure full hydration of the cement. Compaction of dry mixes will be poor and strength will be low.

Placing

RonaScreed 1 Day Overlay Rapid Dry Screed must be placed immediately after mixing. The screed must be compacted and closed with a float or trowel. Avoid overworking the surface.

Thicknesses above 50mm must be placed monolithically (wet on wet) in more than one layer to ensure full compaction. Each layer should be of approximately equal thickness. To ensure satisfactory adhesion the lower layer must be lightly combed, raked or roughened to provide a key for the next layer. If the workability of a layer is lost it must be mechanically abraded before applying the next layer. Allow it to harden sufficiently then scabble, grit blast, needle gun or similarly

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Instructions for Use (continued)

mechanically abrade to remove laitence and friable material. Then apply a bond coat of Ronacrete Rapid Primer well brushed onto the surface and apply the next layer on to the wet/tacky primer.

Curing

Exposure of RonaScreed 1 Day Overlay Rapid Dry Screed to drying winds and direct sunlight should be avoided.

Packaging

RonaScreed 1 Day Overlay Rapid Dry Screed is supplied in 25kg sacks.

Shelf Life / Storage

RonaScreed 1 Day Overlay Rapid Dry Screed 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 9 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 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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BS EN 13813 Floor Screed
Product: RonaScreed 1 Day Overlay Pre-packed Rapid Drying Screed Reaction to Fire: A2-s1,d0 Release of Corrosive Substances: None Capillary Water Absorption: < 0.40kg / m² . min0.5 Compressive Strength: ≥ C40 Flexural Strength: ≥ F4 Wear Resistance BCA method: AR1 Dampness Test (headspace): 75% RH at 20C at 1 day 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.