

Ronascreed 1 Day Overlay Pre-packed 6mm+

Pre-packed rapid drying screed

FEATURES

- ✓ pre-packed mortar for fast drying screeds
- ✓ allows early overlaying with vinyl, carpet or tiles
- ✓ RH at the surface is <75% after 36 hours
- ✓ early strength gain allows quick access by following trades
- ✓ reduces waiting and drying times
- ✓ accelerates building process

SPECIFICATION CLAUSES

1. Quick drying screed, RH < 75% in 36 hours, 6mm minimum thickness, bonded

The rapid drying screed shall be Ronascreed 1 Day Overlay Pre-packed 6mm+ by Ronacrete Ltd, telephone +44 (0) 1279 638700. The bonding primer shall be Ronacrete Standard Primer. The screed shall be laid at a minimum thickness of 6mm. All materials to be applied in accordance with manufacturers instructions.

SUMMARY APPLICATION PROCEDURE

1. prepare substrate
2. prime substrate
3. mix and apply screed
4. cure and protect
5. optionally measure RH at the surface
6. lay covering

Description

Ronascreed 1 Day Overlay Pre-packed 6mm+ 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 sheet products as early as one day after application.

Drying times are determined by many factors including the quality, water content, mixing regime, temperature and drying conditions. The presence or absence of an adequate and effective damp proof membrane will also affect residual moisture content.

Measuring Surface Dryness

Laboratory tests including RH and residual moisture indicate that Ronascreed 1 Day Overlay Pre-packed 6mm+ screeds will be dry enough to accept suitable vinyl and other coverings 24 hours after application when laid and cured at 20°C with good air movement within the area in which the screed has been laid. Similar checks should be made on site.

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.

Priming

Where thickness or application dictates the use of a bonding coat (see Table 1) the surface must be mechanically abraded and tested to ensure it is suitable to restrain a bonded screed. Refer to BS8204 Part 3:1993. Clean 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 Standard Primer well brushed into the damp surface. Before this dries the screed must be laid. If the primer dries it must be vigorously scratched and reapplied.

Mixing

Ronascreed 1 Day Overlay Pre-packed 6mm+ is best 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 between 1.7 and 1.9 litres of clean water per 25kg pack to provide sufficient workability for compaction and surface finish.

Placing

As soon as the material is mixed place it (onto the wet/tacky primer as appropriate), compact, rule and close 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 previous layer has firmed up and lost workability it must be mechanically abraded before applying the next layer. Allow it to harden sufficiently then scabble, grit blast, needle gun or similarly mechanically abrade to remove the top few millimetres to remove laitence and friable material. Then apply a bond coat of Ronacrete Standard Primer well brushed onto the surface and apply the next layer on to the wet/tacky primer.

Curing

The rapid drying characteristics of Ronascreed 1 Day Overlay Pre-packed 6mm+ are achieved in the absence of a curing regime. In certain circumstances, ie strong winds, high temperature, the use of a curing membrane (eg. Ronacrete Curing Membrane, tight fitting polythene) may be necessary; in these situations the screed will take longer to dry.

Pumping

Ronascreed 1 Day Overlay Pre-packed 6mm+ screeds and fine concretes can be pumped; contact the Ronacrete Technical Department for information.

Packaging / Storage

Ronascreed 1 Day Overlay Pre-packed 6mm+ is supplied in 25kg sacks. Ronascreed 1 Day Overlay Pre-packed 6mm+ 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 & Safety

Ronascreed 1 Day Overlay Pre-packed 6mm+ is not hazardous although protective clothing such as goggles, 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.

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Ronascreed 1 Day Overlay Pre-packed 6mm+ - Cement replacement system for rapid drying screeds

Note - Ronascreed 1 Day Overlay Pre-packed 6mm+ is not recommended for use as a wearing surface or for external use. If a wearing screed or waterproof / frostproof screed is needed select other screeding products from the Ronacrete range such as Ronafix; please consult the Ronacrete Technical Department.

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.

Table 1: Bonding regime

6-50mm thick	screed must be bonded	bond with Ronacrete Standard Primer
> 50mm thick	screed may be laid bonded or unbonded	If bonding, bond with Ronacrete Standard Primer

Table 2: Physical data

	Compressive N/mm ²	Tensile N/mm ²
1 day	14	1.4
7 day	32	3.4
28 day	41	3.6
Shrinkage	640 microstrains @ 28 days	
Coutinho ring	No cracks at 4 months	

Table 3: Drying Time / Relative Humidity at the surface

BS 8201:1987 App. A	Hygrometer Reading	
Hours after casting	10mm thick	40mm thick
18	85%	85%
24	79%	77%
36	75%	74%

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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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