RonaScreed 8 Day Overlay Pre-packed Fast Drying Screed

Pre-packed fast drying screed

FEATURES

- **Will accept foot traffic after 24 hours**
- **Fast drying—can receive floor coverings such as vinyl, tiles and carpet after 8 days @ 50mm thick and 15 days at 75mm**
- **Rapid early strength development**
- **Pre-packed for ease of use**
- **Pre-packed formulation offers assurance of consistent high performance**
- **Apply as a bonded screed from 35mm thickness, unbonded from 50mm and floating from 65mm**
- **A compressive strength in excess of 40N/mm² can be achieved after 28 days**
- **Suitable for screed pumps**

Description

RonaScreed 8 Day Overlay Pre-packed is a pre-packed screeding mortar used to quickly reduce the level of retained moisture within the screed allowing floor coverings to be laid over the screed much sooner than with conventional screeds. It also promotes high early strength in compression, permitting early access by following trades.

RonaScreed 8 Day Overlay Pre-packed is supplied in pre-packed form and promotes rapid drying and early laying of floor coverings such as sheet vinyl, tiles, carpet etc.

RonaScreed 8 Day Overlay Pre-packed is typically incorporated within 35mm to 75mm thick floor screeds and applied by competent screeding and floor laying contractors. RonaScreed 8 Day Overlay Pre-packed can be purchased and laid by non-licensed screeding contractors.

Drying Time of 50mm screed	**4 days**	**80%**
	8 days	**75%**
Drying Time of 75mm screed	**8 days**	**80%**
	15 days	**75%**

Physical Properties	**Compressive Strength**	
	1 day	23N/mm²
	28 days	44N/mm²

The above are typical laboratory results @ 20°C. Site strengths will be lower.

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Yield and Coverage

Packs required per m² @ 50mm	**5 packs**
Packs required per m² @ 75mm	**7.5 packs**
Yield per pack	**10 litres**
Packs required per m³	**100 packs**

Drying

When applied at 50mm a RonaScreed 8 Day Overlay Pre-packed screed will achieve 80% RH at the surface of the screed after 4 days and 75% RH after 8 days based on application and curing at 20°C and good drying conditions.

When applied at 75mm a RonaScreed 8 Day Overlay Pre-packed screed will achieve 80% RH at the surface of the screed after 8 days and 75% RH after 15 days based on application and curing at 20°C and good drying conditions.

Poor drying conditions such as; low temperature, high humidity and insufficient air movement 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 before proceeding to lay floor coverings, see BS 8203.

Damp Proof Membrane

Drying concrete must be separated from the screed by polythene or RonaScreed DPM surface damp proof membrane. Screeds thicker than 50mm will take longer to dry. Screeds which become wet during their application or curing, or are used for material storage will take longer to dry.

Note that RonaScreed modified screeds are formulated to be covered with carpet, vinyl, tiles or other coverings and are not designed as wearing screeds or toppings. For wearing screeds Ronafix should be used.

Areas of Use

RonaScreed 8 Day Overlay Pre-packed Fast Drying Screed can be laid in the following situations:

- over concrete slabs
- over existing screeds
- on to damp proof membranes (minimum thickness 35mm on to RonaScreed DPM)
- on to precast concrete, slabs/planks (unbonded only)

BS8204 Part 1 defines methods of testing the performance of bonded screeds. RonaScreed 8 Day Overlay Pre-packed Fast Drying Screed meets the requirements of categories A, B and C of BS8204 Part 1 and are therefore suitable for use in the following areas:

Category A - Very Heavy Traffic
e.g. hospital corridors, operating theatres, x-ray rooms, laboratories

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Areas of Use (continued)

Category B - Heavy Traffic
e.g. canteens, restaurants, hospital wards, main corridors

Category C - Light Traffic
e.g. foot traffic, light trolleys, offices, domestic housing

Drying and Hardening

RonaScreed 8 Day Overlay Pre-packed Fast Drying Screed dries out more quickly than unmodified screeds and will generally accept foot traffic after 24 hours only. Vinyl floor coverings and tiles can be laid over a RonaScreed 8 Day Overlay Pre-packed Fast Drying Screed surface as soon as 8 days after laying (for a 50mm screed).

Bonded, Unbonded and Floating Screeds

RonaScreed 8 Day Overlay Pre-packed screeds can be laid either bonded, unbonded or floating, determined by the substrate type. Unbonded screeds are those laid on a separating layer or preformed damp proof membrane. Floating screeds are those laid on to an insulation board or resilient layer.

Bonded Screed (from 35mm)
- suitable substrate, mechanically prepared (and optionally covered with RonaScreed DPM)
- prime with Ronacrete Standard Primer

Bonded Screed (from 50mm)
- suitable substrate, mechanically prepared
- primer with cement : water (2:1)

Unbonded Screed (from 50mm)
- solid substrate with polythene or other suitable membrane

Floating Screed (65mm)
- light use
- insulation board

Floating Screed (75mm)
- heavy use
- insulation board

Damp Proof Membranes

A damp proof membrane should be present under the concrete slab to prevent moisture penetration from below. If no membrane is present or if the concrete is drying, apply RonaScreed DPM in accordance with the data sheet or install a sheet or similar membrane if an unbonded screed is appropriate. If RonaScreed DPM is laid on to a clean, sound substrate as specified in the RonaScreed DPM data sheet it is possible to lay RonaScreed 8 Day Overlay Pre-packed Fast drying Screed at a minimum thickness of 35mm, bonded to the RonaScreed DPM with Ronacrete Standard Primer.

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Instructions for Use

Surface Preparation
The surface on to which a RonaScreed 8 Day Overlay Pre-packed Fast Drying Screed is to be bonded must be clean, structurally sound and stable. All grease, oil, laitance and loose material must be removed. The surface must be keyed to expose the aggregate and to provide good adhesion. This is best achieved by scabbling, planing or blasting. The prepared surface must be cleaned (ideally by vacuum), damped with clean water and excess water removed.

Mixing
RonaScreed 8 Day Overlay Pre-packed Fast Drying Screed must be mixed using a forced action mixer to provide maximum workability and compaction with the minimum amount of liquid. Mix the bag of powder and then add the RonaScreed 8 Day Overlay Pre-packed Fast drying Screed liquid to provide the desired level of workability. The screeder should be able to make a ball of the mixed mortar and pull it apart without crumbling of the mortar.

Priming
Where thickness dictates the use of a bonding coat, the prepared surface must be well damped with clean water and the water allowed to soak in.

Excess water must be removed and the appropriate bond coat applied. For bonded screeds brush Ronacrete Standard Primer in to the surface or, depending on thickness, a 2:1 cement/water slurry. Before this dries the screed must be laid. If the bonding coat dries it must be thoroughly abraded and another coat applied.

Laying
Standard screeding practices should be followed. The mortar must be placed as soon as possible after mixing and well consolidated. Conventional tools such as float and trowel are used to obtain the desired surface finish.

Embedded Conduits and Pipes
When laying conduits or pipes within RonaScreed 8 Day Overlay Pre-packed Fast Drying Screed the conduit or pipe should be a minimum of 35mm beneath the top surface. It is advisable to incorporate reinforcing mesh, ideally in the middle third of the screed over the conduit or pipe, extending for not less than 150mm each side to minimise the risk of cracking.

Joints
A RonaScreed 8 Day Overlay Pre-packed Fast Drying Screed should be laid as recommended in BS 882, taking care to observe the following:

- construction joints in the substrate must be expressed through into the screed
- expansion joints in the substrate must be expressed through into the screed
- when laying on suspended floors movement joints should be installed in the screed over support positions to accommodate movement
- isolation joints should be installed around the perimeter of the floor and around columns, manholes and fixed spaces to accommodate movement

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Instructions for Use (continued)

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

Pumping
RonaScreed 8 Day Overlay Pre-packed Fast Drying Screed can be pumped to the point of laying. Tests have been conducted using Putzmeister equipment and specific guidance should be sought from Ronacrete Ltd.

Testing

The strength of the screed can be measured using a BRE Screedtester.

Contractors

Unlike other screeds of a similar nature RonaScreed 8 Day Overlay Pre-packed Fast Drying Screed can be purchased and applied by competent screeding contractors throughout the country.

Ronacrete Ltd maintains a list of national and local contractors who are familiar with this type of flooring system and their application procedure.

There are obvious advantages in selecting a contractor who has previous experience of the material but if requested the Ronacrete Technical Department will provide guidance and assistance to other contractors.

Other Flooring Materials

Depending on the specific requirements of the floor system being laid Ronacrete may recommend an alternative product and specification which may be more suited to the application.

To discuss the use of Ronacrete materials for any application please contact the Ronacrete Technical Department for full technical and practical guidance at design and specification stage together with site assistance and practical backup.

Health and Safety

RonaScreed 8 Day Overlay Pre-packed Fast Drying Screed is non-flammable and harmful by ingestion. Prolonged contact with skin should be avoided. Any splashes should be washed well with water. If contact with eyes occurs wash thoroughly with water and seek medical advice.

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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 8 Day Overlay Pre-packed Fast 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: AR3
Dampness Test (headspace): 75% RH at 20C at 8 days
Release of Dangerous Substances: Refer to Safety Data Sheet

Ronacrete
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