

Self-smoothing fibre reinforced, flexible, cementitious underlayment screed



#### **FEATURES**

- Self smoothing, fibre reinforced cementitious underlayment screed
- Highly flexible
- Up to 900m² can be applied per day
- Protein free
- Rapid setting
- Ready for foot traffic after 2 hours @ 20°C
- Fix ceramic tiles after 4 hours @ 20°C
- Lay resilient floor coverings from 24 hours @ 20°C
- Shrinkage compensated

# Description

**Performance Data** 

RonaScreed Renovation Screed is a flexible flow applied underlayment screed for residential, commercial and light industrial areas. It provides a hard, durable base prior to the application of various floor finishes. The material gains strength quickly and can be accessed by foot traffic in as little as 2 hours.

Water addition per 20kg 4.0—4.4 litres
Working time @ 20°C 20-30 minutes
Foot traffic @ 20°C 2 hours
Application thickness 2mm to 50mm

Overlay times @ 20°C

2-10mm thickness 24 hours for floor coverings 50mm thickness 72 hours for floor coverings 4 hours for ceramic tiles

The screed must achieve a compressive strength of at least 25N/mm<sup>2</sup> before the application of a resin floor finish.

## Compressive strength

1 day >15N/mm² 7 day >23N/mm² 28 day >35N/mm²

Flexural strength

1 day >3N/mm² 7 day >5N/mm² 28 day >7N/mm²

Results shown are from samples mixed, conditioned and tested in ideal laboratory conditions ( $20^{\circ}$ C, 65% RH). Site results will be lower. Drying times may be longer. When opening to foot traffic do not subject to potential impact damage for 14 days.

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## **Estimating Guide**

#### **RonaScreed Renovation Screed**

1.7kg/m²/mm (1 x 20kg unit will cover approximately 2.35m² at 5mm thick)

#### Sealing & Priming

Refer to RonaScreed Primer technical data sheet.

## **Achievable Surface Finish**

Due to the nature of the product the risk of air bubbles, pinholes and surface undulations cannot be entirely eliminated. Correct substrate preparation, effective sealing and priming and correct mixing/ application will provide optimum results. It is recommended that a Ronacrete Approved Contractor should be employed. The presence of surface imperfections will not impair the performance of the product.

# **Substrate Preparation**

#### Concrete/screed

The concrete or screed must be mechanically prepared by vacuum shot blasting or scabbling to fully remove laitance and then cleaned to remove contamination, Loose shot and dust should be removed by vacuum cleaning before the process of sealing and priming commences. Pins may be placed in the floor to set out the required levels.

## Ceramic, porcelain and quarry tiles

Ensure all tile surfaces are clean and dry. All tiles are to be firmly bonded, any loose tiles to be removed and the area repaired with a suitable Ronacrete repair mortar. RonaScreed Feather Finish is to be used to fill grout joints to level the surface prior to priming and applying RonaScreed Renovation Screed.

#### Flooring Grade Asphalt

The surface is to be secure, clean and free from dirt and other contamination. The minimum application thickness of RonaScreed Renovation Screed over flooring grade asphalt is 3mm, the maximum thickness is 6mm.

#### **Vinyl Tiles**

All tiles are to be secure and well adhered to the substrate. The surface is to be clean, dry and free from contamination.

#### **Underfloor Heating**

Underfloor heating must be switched off 48 hours before and after application of RonaScreed Renovation Screed. When switching on, commence with low temperature and gradually increase at 5°C per day up to maximum operating temperature.

## **Under-tile Heating**

RonaScreed Renovation Screed may be used to encapsulate undertile heating systems over plywood, up to a maximum thickness of 10mm.

#### Floorboards and T&G Flooring

All boards must be mechanically fixed by screw fixings to the supporting structure at maximum 150mm centres. The substrate is have sufficient strength to support the underlayment screed and final floor finish. RonaScreed Feather Finish is to be used to fill joints prior to priming and applying RonaScreed Renovation Screed.

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# Substrate Preparation (continued)

# **Plywood Overlay**

Plywood is to be minimum 6.5mm thickness and screw fixed to the substrate at maximum 100mm centres at the board edges and 150mm maximum centres in a grid formation to the board centre. RonaScreed Feather Finish is to be used to fill joints prior to priming and applying RonaScreed Renovation Screed.

#### Metal

All metal surfaces to be degreased and to be clean and dry. RonaScreed Feather Edge is to be used to fill joints prior to priming and applying RonaScreed Renovation Screed.

#### Instructions for Use

Priming is always required - refer to RonaScreed Primer technical data sheet

#### Note

- Major imperfections or deviations in the substrate may need to be made good before laying RonaScreed Renovation Screed.
- For greater thicknesses apply further layers after the previous layer has set.
  Previous layers are to be abraded and vacuumed to remove laitance. All
  layers are to be of a similar thickness. Priming with RonaScreed Primer is
  required between layers.

## Mixing/Laying

RonaScreed Renovation Screed may be applied either by mixer/pump Putzmeister SP 11 THF (or similar, note that continuous feed pumps may not provide adequate dispersal of components) or when mixing smaller quantities, mix with a slow speed drill ≤ 450RPM fitted with an MR3 type helical paddle and pour onto the floor. Pump or pour RonaScreed Renovation Screed onto the prepared and sealed/primed surface and level with a pin rake. Spike rolling is necessary to expel entrapped air and must be completed before the mix begins to gel, to avoid leaving spike marks in the surface.

For pump applications it is recommended that a contractor with the necessary experience to carry out this type of work is employed. For a list of such contractors contact the Ronacrete Technical Department.

# **Application Temperature**

The substrate and ambient temperature must not be less than 5°C on a rising thermometer at time of application. Materials should be at a temperature of 15°C - 20°C at time of application; lower temperatures will impair flow and surface finish. There should be light ventilation during and after laying. Apply the material within 15 minutes of mixing (at 20°C). **Protect the fresh screed from direct sunlight during the hydration/drying process.** Low temperatures will reduce the flow of the wet screed and increase the risk of surface undulations and imperfections. Take extra care when working at low temperatures.

## **Joints**

It is recommended that isolation joints are positioned in doorways. Large areas should be sub-divided by using temporary dividing strips to limit bay width, ensuring that a wet edge is maintained. Bay joints and movement joints in the substrate must be brought through into the topping.

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Cleaning Tools and equipment should be cleaned with water immediately after use. Cured

material can be removed mechanically.

Packaging RonaScreed Renovation Screed - 20kg bags.

Shelf Life and Storage Store in a cool dry place. Shelf life in correct storage conditions for sealed bags is

6 months. High temperature and high humidity will lead to a reduced shelf life.

**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.

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 of amage arising out of such use.