



RonaScreed Flowable Base

Self-smoothing cementitious underlayment screed



FEATURES

- Self smoothing cementitious underlayment screed
- Base layer for RonaScreed Flowable Topping or floorings such as carpet, vinyl or tiles
- 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

RonaScreed Flowable Base is a flow applied underlay screed for residential, commercial and light industrial areas. It provides a hard, durable base for RonaScreed Flowable Topping or floor finishes such as sheet vinyl, carpet or tiles. The material gains strength quickly and can be accessed by foot traffic in as little as 2 hours.

Performance Data

Water addition per 20kg	4.0—4.5 litres
Working time @ 20°C	20-30 minutes
Foot traffic @ 20°C	2 hours
Application thickness (unfilled)	1mm to 15mm
Application thickness (filled)	16mm to 50mm

Overlay times @ 20°C

3-10mm thickness	24 hours for floor coverings
50mm thickness	72 hours for floor coverings
3mm thickness	4 hours for ceramic tiles

The screed must achieve a compressive strength of at least 25N/mm² before the application of a resin floor finish.

Compressive strength

1 day	>11N/mm ²
7 day	>20N/mm ²
28 day	>37N/mm ²

Flexural strength

1 day	1.4N/mm ²
7 day	2.6N/mm ²
28 day	6.9N/mm ²

Results shown are from samples mixed, conditioned and tested in ideal laboratory conditions (20°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

RonaScreed Flowable Base

Self-smoothing cementitious underlayment screed

Estimating Guide

Unfilled

RonaScreed Flowable Base

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

Filled with RonaScreed Chippings 2:1

RonaScreed Flowable Base

1.1kg/m²/mm

RonaScreed Chippings

0.55kg/m²/mm

(a 20kg unit filled with 10kg chippings will cover approximately 0.9m² at 20mm)

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 Edge is to be used to fill grout joints to level the surface prior to priming and applying RonaScreed Flowable Base.

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.

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 Flowable Base.
- 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.

RonaScreed Flowable Base

Self-smoothing cementitious underlayment screed

Instructions for Use (cont.)

Mixing/Laying

RonaScreed Flowable Base 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 $\leq 450\text{RPM}$ fitted with an MR3 type helical paddle and pour onto the floor. Pump or pour RonaScreed Flowable Base 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 $15^{\circ}\text{C} - 20^{\circ}\text{C}$ 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.

Cleaning

Tools and equipment should be cleaned with water immediately after use. Cured material can be removed mechanically.

Packaging

RonaScreed Flowable Base - 20kg bags.
RonaScreed Chippings - 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 for any loss or damage arising out of such use.