



Fast setting, water tolerant, self smoothing resurfacing screed



FEATURES

- self smoothing, does not require trowelling.
- can be pumped or poured.
- very fast application reduces disruption and down time.
- economical—lower cost than resin based systems.
- suitable for exterior use.
- manufactured under a Quality Assurance Scheme to BSEN ISO 9001

Description

RonaScreed Self Smoothing Exterior Screed is a flow applied industrial flooring system. It provides a hard, durable floor surface for new floors or for renovating existing surfaces. The material gains strength quickly and can be accessed by foot traffic in 4—5 hours and by light to medium traffic after 24 hours @ 20°C.

When applied correctly, RonaScreed Self Smoothing Exterior Screed produces a smooth, durable wearing surface. The application thickness can vary, ranging from 5mm to 40mm. For optimum performance and appearance RonaScreed Self Smoothing Exterior Screed should be applied by specialist industrial floor layers with expert knowledge of preparation, mixing and application.

Performance Data	Water addition per 25kg Initial flow properties @ 20°C	3.5—3.7 litres
	(using 65mm diameter x 40mm flow ring) Workability	190mm ±15mm up to 30 minutes
	Foot traffic @ 20°C	4—5 hours
	Light traffic @20°C	24 hours
	Application thickness (min / max)	5mm / 40mm
	Bond strength	>1.3N/mm²
	Shrinkage @ 28 days	≤ 0.02% linear
	Pack size	25kg
	Compressive strength @ 28 days	30N/mm²
	Flexural strength @ 28 days	9N/mm²
	Tensile strength	4N/mm ²

Results shown are from samples mixed, conditioned and tested in ideal laboratory conditions. Site results will be lower. Drying times may be longer.



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Composition	RonaScreed Self Smoothing Exterior Screed is supplied as a cement based dry powder which requires a specified quantity of clean water to produce a free flowing self-smoothing mix ready to pump or pour onto prepared, sealed and primed surfaces. It is manufactured by blending special cements, selected fillers, polymers and plasticisers. It is free from casien, other proteins and ammonia and is consequently suitable for use in hospitals and food processing areas. It has been carefully formulated to provide high performance and ease of application.
Uses	RonaScreed Self Smoothing Exterior Screed provides a tough durable floor which is used in thin section. Its exceptional self smoothing properties allows the topping to be laid quickly to the most demanding tolerances.
	It can be used in food processing plants, factories, warehouses and other locations where a high degree of wear resistance is required. RonaScreed Self Smoothing Exterior Screed is suitable for levelling concrete to meet the exacting requirements of high bay racking systems.
Achievable Surface Finish	RonaScreed Self Smoothing Exterior Screed is designed to provide a rapid strength gain, hard wearing screed or a surface suitable to receive a further layer such as vinyl or coating. Due to the nature of the product the risk of entrapped air, pinholes and surface undulations cannot be eliminated. However efficient substrate preparation, sealing and priming, combined with correct mixing and application will provide optimum results. It is recommended that a specialist applicator is employed. The presence of surface imperfections will not impair the performance of the product.
Instructions for Use	Preparation The condition of the surface to be treated is of great importance. The substrate must be mechanically prepared e.g. scabbled, milled or shot blasted. All laitance and contamination must be removed to leave a clean aggregate exposed finish. Testing and assessment to BS8204 Part 3 should be conducted before proceeding with vacuum cleaning, sealing and priming.
	Substrate Sealing Seal the prepared surface by applying one or more coats of RonaScreed Self Smooth Primer diluted with 5 parts water at the rate of 0.62 litres/m ² . Allow to dry for not more than 36 hours; protect the surface and keep clean.
	Note that inadequate sealing will increase the risk of pinholing. Very porous substrates may require the application of two or more coats of sealer. Whilst it is difficult to determine whether a substrate has been sufficiently sealed, a sheen on the surface of the substrate is an indication of adequate sealing.
	Substrate Priming Prime the sealed surface by applying one coat of RonaScreed Self Smooth Primer diluted with 3 parts water at the rate of 0.71 litres/m ² . Brush this well into the surface. Apply RonaScreed Self Smoothing Exterior Screed whilst primer is tacky; typically between 2-4 hours after application based on material, ambient and substrate condition of 20°C @ 65%RH.

Screeds

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Instructions for Use (continued)	 Note Major imperfections or deviations in the substrate may need to be made good before laying RonaScreed Self Smoothing Exterior Screed. Allow the sealer to dry Always prime surface within 36 hours of sealing operation. Remove ponded primer. Always apply RonaScreed Self Smoothing Exterior Screed on to wet or tacky primer. RonaScreed Self Smoothing Exterior Screed is self smoothing but not self levelling. It must be levelled with a pin rake before spike rolling. RonaScreed Self Smoothing Exterior Screed is a free flowing liquid consistency screed. It is essential that prior to pouring, adequate precautions are taken to ensure that the material is retained. 		
	Mixing/Laying RonaScreed Self Smoothing Exterior Screed may pump Putzmeister SP 11 THF (or similar, note the not provide adequate dispersal of components) o mix with a slow speed drill ≤ 450RPM fitted with a pour onto the floor. Pump or pour RonaScreed S onto the prepared and sealed/primed surface and rolling is necessary to expel entrapped air and mu begins to gel, to avoid leaving spike marks in the For pump applications it is recommended that a c experience to carry out this type of work is emplo contractors contact the Ronacrete Technical Dep	at continuous feed pumps may r when mixing smaller quantities, an MR3 type helical paddle and elf Smoothing Exterior Screed I level with a pin rake. Spike ust be completed before the mix surface. contractor with the necessary yed. For a list of such	
	5mm screed 10mm screed 15mm screed 20mm screed 25mm screed	8.5kg/m² 17kg/m² 25.5kg/m² 34kg/m² 42.5kg/m²	
Estimating Guide	Smooth Primer needed for sealing and priming e	vide surface area by 3.5 to calculate quantity of litres of RonaScreed Self nooth Primer needed for sealing and priming e.g. 1000m ² divided by 3.5 = 286 es of Primer needed which is enough for one coat of sealer and one coat of	
	The substrate and ambient temperature must n thermometer at time of application. Materials sho 20°C at time of application; lower temperatures v There should be light ventilation during and after 15 minutes of mixing (at 20°C). Protect the free during the hydration/drying process. Low ten the wet screed and increase the risk of surface Take extra care when working at low temperature	uld be at a temperature of 15°C - vill impair flow and surface finish. laying. Apply the material within sh screed from direct sunlight mperatures will reduce the flow of a undulations and imperfections.	
Joints and Bay Width	It is recommended that isolation joints are position should be sub-divided by using temporary div ensuring that a wet edge is maintained. Bay jo substrate must be brought through into the toppin	<i>v</i> iding strips to limit bay width, pints and movement joints in the	



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Water and Chemical Resistance	RonaScreed Self Smoothing Exterior Screed has good resistance to exposure to water. If attack from solvents or acids is likely, the surface must be protected by a suitable resin based coating e.g RonaFloor HB100/200 or PU Coating. RonaFloor HB coatings may also be used to provide decoration and colour demarcation. When applying a coating, lightly abrade the surface to improve adhesion, When applying RonaFloor HB coatings an initial coat of RonaFloor EWB is recommended.
Cleaning	RonaScreed Self Smoothing Exterior Screed may be cleaned with a rotary scrubbing machine, using a pH neutral cleaning material. The uncoated screed will mark more quickly than one protected with a coating. Tools and equipment should be cleaned with water immediately after use. Cured material can be removed mechanically or by acid etching.
Packaging	RonaScreed Self Smoothing Exterior Screed is supplied in 25kg high density polythene lined bags. Deliveries from the factory are shrink wrapped.
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.
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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