DATASHEET 16.01
RONASCREED SBR

RonaScreed SPECIALIST SCREEDS

Admixture for thin bonded screeds

RONASCREED

FEATURES

- Polymer admixture
- Bonded screeds from 10mm
- Open to foot traffic next day
- Open to heavy traffic after 3 – 5 days
- Enhanced physical properties
- Excellent wear resistance
- Lay flooring over 50mm screeds after only 10 days

RonaScreed SBR screeds and toppings may be laid bonded as thin as 10mm. The cured mortar bonds securely to suitably prepared and primed surfaces and is water resistant. Bonded screeds are primed with a mixture of RonaScreed SBR and cement, which achieves monolithic adhesion to correctly prepared concrete or screeds of adequate strength for adhesion of a high strength topping.

The mix design for each is RonaScreed SBR admixture, cement, medium grade sharp sand, aggregate as determined by the mix design, plus water. The components are measured by weight or by volume (batch boxes only) on site and mixed using forced action mixer.

SPECIFICATIONS

Mix Design 1 - Wearing or leveling screed or screed repair	
Thickness - bonded	10mm /75mm
Thickness - unbonded/floating	35mm / 75mm
Portland Cement (CEM II 42.5)	50kg
0/4mm screeding sand	200kg
2/5mm granite	–
RonaScreed SBR	10 litres
Water	*See note
Yield per mix	0.1m³
Compressive strength @ 1 day	> 12N/mm²
Compressive strength @ 3 days	> 32 N/mm²
Compressive strength @ 7 days	> 40 N/mm²
Compressive strength @ 28 days	> 45 N/mm²
Tensile strength @ 7 days	> 4 N/mm²
Tensile strength @ 28 days	> 4.5 N/mm²
Flexural strength @ 7 days	> 10 N/mm²
Flexural strength @ 28 days	> 10 N/mm²

Mix Design 2 - Levelling screed or screed repair	
Thickness - bonded	25mm +
Thickness - unbonded/floating	35mm+
Portland Cement (CEM II 42.5)	50kg
0/4mm screeding sand	200kg
2/5mm granite	–
RonaScreed SBR	5 litres
Water	*See note
Yield per mix	0.1m³
Compressive strength @ 1 day	> 11 N/mm²
Compressive strength @ 3 days	> 30 N/mm²
Compressive strength @ 7 days	> 34 N/mm²
Compressive strength @ 28 days	> 40 N/mm²
Tensile strength @ 7 days	> 3 N/mm²
Tensile strength @ 28 days	> 3.5 N/mm²
Flexural strength @ 7 days	> 6.5 N/mm²
Flexural strength @ 28 days	> 7 N/mm²

Mix Design 3 - Granolithic topping or repair	
Thickness - bonded	15mm+
Thickness - unbonded/floating	35mm+
Portland Cement (CEM II 42.5)	50kg
0/4mm screeding sand	150kg
2/5mm granite	50kg
RonaScreed SBR	10 litres
Water	*See note
Yield per mix	0.1m³
Compressive strength @ 1 day	> 20 N/mm²
Compressive strength @ 3 days	> 40 N/mm²
Compressive strength @ 7 days	> 56 N/mm²
Compressive strength @ 28 days	> 60 N/mm²
Tensile strength @ 7 days	> 4.5 N/mm²
Tensile strength @ 28 days	> 5 N/mm²
Flexural strength @ 7 days	> 9 N/mm²
Flexural strength @ 28 days	> 10 N/mm²

Note that all quoted data is based on tests conducted at 20°C by casting 100mm cubes which are air cured. Results shown are typical strengths achieved by casting and curing cubes in laboratory conditions; site strengths will be lower. Water addition is variable according to the water content of the aggregate.

* Water addition will depend on sand water content. To test for correct consistency a ball should be made of the mortar, squeezing of the ball should not produce free liquid. When the ball is pulled apart it should separate in two pieces without crumbling.

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USING THE SURFACE

RonaScreed SBR screeds and toppings can typically receive foot traffic after 24 hours and heavy traffic after 3-5 days at 20°C. Allow more time in cold conditions.

DRYING

Floor finishes, including resilient flooring, tiles and resin coatings/ screeds may typically be laid after 10 days air curing at 50mm thickness, 20°C and 60-65% relative humidity. Measure screed RH with a hygrometer in accordance BS 8203 A.2.1 Insulated impermeable box. Low temperature, high humidity, increased screed thickness and changing the mix design 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. Standard practices should be followed.

WORKING TEMPERATURES

RonaScreed SBR screeds can be used in most weather conditions and in a wide temperature range, typically from +3°C to 25°C and above.

Note that at high ambient temperatures the working time of the mix will be reduced; it will be increased at lower temperatures.

PACKAGING

RonaScreed SBR is supplied in 5 litre, 25 litre, 210 litre and 1,000 litre units.

SHELF LIFE AND STORAGE

Shelf life in unopened containers is 6 months. Store in a cool dry place and out of direct sunlight. Protect from frost.

How to contact us:

You can contact the Ronacrete office directly on **01279 638700**

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For more information please refer to technical data sheet.