



## TECHNICAL DATA SHEET – RENOSCREED SBR

### Product Overview

**RENOSCREED SBR** is a styrene-butadiene copolymer latex emulsion designed for use in traditional cementitious and wearing screeds. The addition of RENOSCREED SBR improves durability, abrasion resistance, water resistance and overall strength of screeds.

It has a strong plasticising effect, improves workability, reduces shrinkage and drying time, and can also be used as a sealer coat, bonding primer, or slurry bonding agent.

### Suitable for:

- Bonded screeds
- Unbonded/floating screeds
- Wearing screeds (including heavy duty)
- Polymer-modified screeds
- Sealer and slurry bonding applications

### Applications

- Concrete substrates
- Sand/cement screeds
- Traditional and heavy-duty wearing screeds
- Screeds requiring improved water/chemical resistance
- Use as a sealer or primer coat
- Slurry bonding with OPC and sand

Renoscreed

Unit 1 Power Park, Commercial Road, Goldthorpe Industrial Estate, Goldthorpe. S63 9BL

Tel: 01709261 007 | Email: [contact@renoscreed.co.uk](mailto:contact@renoscreed.co.uk) | Web: [www.renoscreed.co.uk](http://www.renoscreed.co.uk)



## Technical Data

Property	Value
Appearance	Low viscosity, white liquid
Packaging	5, 25L plastic container
pH	>9
Specific Gravity	~1.0
Dosage Rate (screed)	20–30% by weight of OPC
Coverage (sealer)	~5–10 m <sup>2</sup> /kg
Coverage (slurry)	~3 m <sup>2</sup> /kg
Dry Screed Density	1950–2300 kg/m <sup>3</sup>
Light Foot Traffic	~24 hours
Full Traffic	~7 days
Drying Time	~7 days per 25mm (good conditions)
Shelf Life	12 months (unopened, cool/dry storage)
Storage	Cool, dry, frost-free environment

## Key Benefits

- Allows installation of thin section screeds
- Improved workability and flow
- Lower shrinkage and reduced cracking risk
- Enhanced durability and abrasion resistance
- Improved resistance to water and vapour
- Improved compressive, flexural and tensile strength
- Reduced surface dusting

## Substrate Preparation

- Substrates must be structurally sound, clean, and free of dust, laitance, grease, oil, or contaminants.
- Bonded construction requires sealer and slurry bonding coats.
- For direct-to-earth subfloors, ensure an effective DPM is present.
- Relative humidity of the substrate should be below 75% prior to application.
- Mechanically prepare surfaces to achieve a clean, open texture.

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## Application Instructions

### Screed Mixing

- Mix using a forced action mixer.
- Pre-mix sand and cement, then add RENOSCREED SBR.
- Slowly add water to achieve workable consistency (minimal additional water needed at high dosage rates).
- Mixing time: 1–3 minutes. Avoid excessive air entrainment.
- Working life: ~20–30 minutes.

### Sealer Coat

- Mix **1 part RENOSCREED SBR** with **2 parts clean water**.
- Apply with a soft brush/roller to form a thin, even coat.
- Typical coverage: **5–10 m<sup>2</sup>/kg RENOSCREED SBR**.

### Slurry Bonding Coat

- Mix **1 part RENOSCREED SBR**, **1 part water**, and **3 parts Portland cement** to form a smooth paste.
- Apply evenly with a stiff brush immediately before placing the screed.
- Typical coverage: **~3 m<sup>2</sup>/kg RENOSCREED SBR**.
- The slurry coat must not be allowed to dry out before screed application.

### Screed Application

- Lay screed to required thickness (bonded: 10–40mm; unbonded: ≥40mm; floating: ≥75mm / 65mm domestic).
- Compact and finish with screed bars and floats.
- Cure under polythene for 1–5 days. Allow natural drying.

### Screed Mix

Portland Cement (C42.5N)	- 50kg
0-4mm Screed Sand	- 175kg
Renoscreed SBR	- 10kg to 15kg (10kg – C25 / 15kg – C30)
Water (Approx. – to correct consistency)	- 5kg
Fibres	- 0.15kg

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## Compatibility

Renoscreed SBR is suitable for use with the full range of Renoscreed levelling compounds and screeds where improved performance is required.

## Limitations

- Apply only in temperatures between +5°C and +30°C.
- Ambient relative humidity should not exceed 75%.
- Avoid partially bonded screeds (risk of cracking).
- Care recommended for use with screed pumps – product can be sticky
- Use only with good quality aggregates and OPC  $\geq 42.5$  strength class.

## Storage & Shelf Life

Store unopened in a cool, dry place. Protect from frost. Shelf life is 12 months from manufacture.

## Health & Safety

This product is not classified as hazardous. Avoid contact with skin and eyes. Wear appropriate PPE. Refer to the Material Safety Data Sheet (MSDS) for further details.

## Cleaning & Disposal

- Clean all tools and equipment immediately after use with clean water.
- Do not allow product to dry on tools.
- Dispose of contents/container in accordance with local regulations.

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