

TECHNICAL DATA SHEET

SEALSUM SCREED

High Quality Screed Mixture

DESCRIPTION

SEALSUM Screed is a high-quality, pre-blended screed mix formulated for the installation of cementitious screeds and beds. It is supplied as a grey powder, consisting of carefully graded sand, cement, and performance-enhancing additives, engineered to deliver excellent workability and strength.

SEALSUM Screed is designed for both internal and external floor applications, including balconies, bathroom floors, and shower bases. It is suitable for use in bonded and unbonded screed systems, providing a stable substrate for the installation of tiles, vinyl, carpet, and other floor finishes.

FEATURES

- Single component – just add clean water
- Pre-blended for ease of use – no need to carry separate sand and cement
- Fast and easy application, saving time on site
- Suitable for both thin and thick bed screeds
- Consistent quality and performance in every bag

USES

- Domestic and commercial applications
- Internal and external floor areas
- Main foyers and general flooring
- Shower recesses and bathroom floors
- Laundries and kitchens
- Balconies and terraces

SPECIFICATIONS

Main Constituents	Cement, Graded Aggregate, Special Additives
Net Weight	20kg / Bag
Form	Grey Powder
Mix Ratio	1.8 – 2.1 Litres per 20kg
Compressive Strength	>31 MPA (after 28 days)
Coverage (20kg Bag)	1 m ² at 10 mm thickness
Pot Life (Working Time)	20 - 30 minutes
Setting Time	1-2 hours
Drying Time	12 hours
Shelf Life	12 Months

* Depends on temperature, humidity, surface permeability, etc.

* Under generally accepted hygrothermal conditions

APPLICATION INSTRUCTIONS

Substrate Preparation

All substrates must be structurally sound, clean, dry, and free of dust, dirt, wax, curing compounds, paint, adhesives, latex, gypsum, grease, oil, loose particles, and any other contaminants that may act as bond breakers.

Concrete substrates must be free from laitance, efflorescence, and must not be subject to hydrostatic pressure.

Moisture levels within the substrate are critical to the performance of the total flooring system. Before applying floor finishes over SEALSUM Screed, ensure the screed has dried sufficiently to meet the moisture requirements for the selected floor covering.

- Concrete substrates must be cured for a minimum of 28 days, or
- When tested in accordance with AS 1884:2021 (ASTM F2170 – in-situ probe test), must exhibit a relative humidity $\leq 75\%$.

Cementitious substrates (e.g. concrete) must not be subject to any post-installation shrinkage after the application of SEALSUM Screed.

Ensure fibre cement sheets and lightweight structural flooring systems have been installed in accordance with applicable Australian Standards and manufacturer's installation guidelines.

Mixing

Machine Mixing: Place the SEALSUM Screed into a mechanical mixer. Add 1.8 – 2.1 litres of clean water per 20kg bag of product. Mix thoroughly for 3–5 minutes until a consistent, lump-free mixture is achieved.

Drill Mixing: Pour 1.8 – 2.1 litres of clean water into a clean mixing container. Gradually add one 20kg bag of SEALSUM Screed while mixing with a low-speed drill mixer. Mix thoroughly to obtain a smooth, homogeneous paste.

Hand Mixing: Place the required amount of SEALSUM Screed into a wheelbarrow or onto a clean, solid surface. Add 1.8 – 2.1 litres of clean water per 20kg bag and mix manually with a shovel until a uniform consistency is achieved.

APPLICATION INSTRUCTIONS

Apply the mixed screed to the prepared substrate and screed to the desired thickness and level using a straight edge.

Finish the surface using a wooden or polyurethane float to achieve the required texture.

APPLICATION – BONDED AND UN-BONDED SCREEDS

Bonded Screeds: Apply a suitable tile adhesive to the prepared substrate using a 6mm notched trowel. While the adhesive is still wet, place the mixed SEALSUM Screed directly onto the bond coat and screed to the desired level.

Important: Bonded screeds must be installed using the wet-on-wet method for optimal adhesion.

Minimum recommended thickness for bonded screeds: 10 mm

Un-bonded Screeds: Apply SEALSUM Screed over a suitable separation layer such as polyethylene sheeting, waterproofing membrane, or building paper, and screed to the required level and finish as previously described.

Minimum recommended thickness for un-bonded screeds: 40mm

Note: Discard any material that has exceeded its pot life or working time. Do not attempt to re-temper with water.

INSTALLING TILES, VINYL AND CARPET

Ceramic tiles may generally be installed using a suitable Tile Adhesive once SEALSUM Screed has fully cured—typically after 7 days, depending on environmental conditions and screed thickness.

When determining the suitability of the cured SEALSUM Screed for the installation of various floor coverings, the following Australian Standards provide guidance:

AS 3740:2021 – Waterproofing of Domestic Wet Areas

AS 3958.1:2007 – Ceramic Tiles – Part 1: Guide to the Installation of Ceramic Tiles

AS 1884:2021 – Resilient Sheet and Tile Floor Coverings – Installation Practices (includes vinyl, lino, etc.)

AS 2455.1:2007 – Textile Floor Coverings – Installation Practice (covers carpet and similar materials)

IMPORTANT NOTES

Always read the complete Technical Data Sheet (TDS) and Safety Data Sheet (SDS) before use.

For unusual or non-standard substrates, or if there is any doubt about suitability or surface preparation, consult the SEALSUM Technical Department prior to commencing work.

STORAGE AND SHELF LIFE

When stored in original, unopened packaging in a cool, dry environment, SEALSUM Screed has a shelf life of 12 months.

Avoid storage in areas of high humidity or moisture, as this may affect product performance and reduce shelf life.

CLEANING

Clean all tools and equipment with clean water before the product hardens.

Once hardened, removal may require mechanical or chemical methods.

For chemical cleaning, use a suitable acid-based proprietary concrete cleaner and always follow the manufacturer's safety instructions.

PRECAUTIONS

Detailed safety instructions for SEALSUM products are provided in their respective Safety Data Sheets (SDS).

To ensure safe handling and application, all users are strongly advised to read and follow the SDS carefully.

For copies, please contact SEALSUM or visit our official website.

HEALTH AND SAFETY

Avoid inhalation of dust and contact with skin and eyes during use. Always wear appropriate personal protective equipment (PPE), including gloves, safety goggles, suitable clothing, and a dust mask or respirator.

In case of skin contact, wash thoroughly with plenty of clean water and soap. If product comes into contact with eyes, rinse immediately with plenty of water and seek medical advice.

If swallowed, do not induce vomiting. Seek immediate medical attention.

Refer to the product's Safety Data Sheet (SDS) and follow all label instructions before use.

For emergency information contact the Poisons Information Centre, phone 131 126

LIMITATIONS

- Do not apply in temperatures below 5°C or above 35°C.
- Not suitable for use over substrates subject to post-application shrinkage.
- Do not apply at thicknesses below 10 mm or above 100 mm.
- Screed layers greater than 70 mm must be reinforced with suitable reinforcing mesh.
- Suspended concrete slabs must comply with AS 3958.1–2007 regarding maximum allowable deflection. All post-tensioned slabs must be treated as flexible substrates.
- If in doubt, contact SEALSUM Technical Services for guidance.

NOTES

The details and recommendations contained in this data sheet are given in good faith and represent the best of our knowledge and experience at the time of publication of this Technical Data Sheet. Product properties may change with product improvement, subjecting the content of this Technical Data Sheet to change.

DISCLAIMER

To the maximum extent permitted by law, SEALSUM disclaims all warranties in relation to any loss or damage resulting from use of out-of-date product, incorrect use of the product, or negligence. Even if problems occur while using the product, SEALSUM's responsibility is limited to replacement and refund of such product.

Data was developed by the researchers in SEALSUM in-house laboratory and based on hands-on work experience. Data is subject to change with improvements to product quality. Data may not be optimized in some sites. Consult SEALSUM should you have any doubts.

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