

DESCRIPTION

TAL SUPERSCREED is a grey single-component high-performance levelling and smoothing underlayment manufactured from rapid-setting shrinkage-compensated cement and selected aggregates formulated for rectifying and smoothing imperfections in floor surfaces.

Trowel-applied, it is designed to produce a smooth, hard wearing surface suitable for fixing all floor coverings including semi and fully flexible vinyl tiles and sheeting, carpeting, ceramic tiles, rubber and wood flooring. Floor coverings can be fixed after 24 hours, depending on application thickness and ambient conditions, once the moisture content of the floor has been tested and confirmed suitable to receive the intended floor covering.

When mixed with TAL SCREEDBINDER (as a total water replacement) it is also suitable for use as a protective barrier over under tile heating elements and for commercial installations where rubber caster wheels form the majority of the traffic.

NOTE :

- **All surface beds should have a damp proof membrane, and all substrates must attain moisture levels of 5% (75% RH) or less before the application of TAL SUPERSCREED polymer-modified underlayment can commence.**
Should there be no damp proof membrane below a surface bed, or should prevailing moisture levels not attain 5% (75% RH) or less, then TAL X-CALIBUR X-SHIELD VAPORSTOP HB must be applied before the application of TAL SUPERSCREED. X-SHIELD VAPORSTOP HB is a moisture tolerant, 100% solids epoxy barrier coat that prevents the passage of water vapour and moisture through concrete slabs into the underlayment layer.
Please contact TAL for a specification for the application of X-SHIELD VAPORSTOP HB if required.
- **For optimum product performance the Slab, Water and Ambient Temperatures should be around 20°C. However, if this is not possible, the information below should be used as a guide for product installation :**
 - **Ambient temperatures between 10°C - 30°C must be maintained throughout installation and curing.**
 - **The Floor Slab must have a minimum temperature of 10°C during the SUPERSCREED application.**
 - **The temperature of the Water must be between 15 - 25°C when mixed with SUPERSCREED.**
 - **Low Floor Slab and/or Ambient Temperatures and Water Temperatures will have a detrimental effect on the curing of the TAL SUPERSCREED, ie full cure will never be achieved.**
 - **High Floor Slab and/or Ambient Temperatures and Water Temperatures will result in flash-setting of the TAL SUPERSCREED and the product will not be workable.**
- TAL SUPERSCREED is suitably designed for application onto concrete and screeded substrates. These substrates should be integrally sound (no crumbling, cracking, etc) and of a quality and consistency suitable for screeding. TAL cannot be held liable should the underlayment installation be compromised as a result of failure or debonding (cohesive failure) occurring within the subsurface.
Moisture and pull-off tests must be conducted on the cured underlayment layer by the flooring contractor prior to installing vinyl flooring and epoxy floor coatings/coverings.

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Classification According to EN13813

TAL SUPERSCREED is classified as a polymer-modified CT-C25-F4 screed (cementitious screed (CT) with a compressive strength (C) of minimum 25 N/mm² (MPa) and a flexural strength (F) of minimum 4 N/mm² (MPa)).

When mixed with TAL SCREEDBINDER as a **total** water replacement TAL SUPERSCREED is classified as polymer-modified CT-C30-F6 screed (cementitious screed (CT) with a compressive strength (C) of minimum 30 N/mm² (MPa) and a flexural strength (F) of minimum 6 N/mm² (MPa)).

TECHNICAL DATA

Type	Modified cement-based underlayment
Colour	Grey
Setting Type	Rapid setting
Pot life*	1 Hour 15 Minutes
Open Time* (Working time after mixing)	20 – 30 minutes
Initial Set*	Minimum 2 Hours
Trafficable (<i>light</i>) after*	3 Hours
Floor covering installation*	After 24 hours, depending on application thickness and ambient conditions
Compressive Strength (28 Days)	≥ 25 MPa
Flexural Strength (28 Days)	≥ 4 MPa
Mixing water temperature	15°C - 25°C
Application temperature range (ambient)	+10°C - +30°C
Slab temperature	+10°C - +30°C
Temperature Resistance	+5°C - +60°C
Mixing ratio	20kg / 5ℓ
Min application thickness	Featheredge
Max application thickness	12mm
Density	1.80
Pack size	20kg

*At 25°C and 50% relative humidity.

The success of the installation is dependent on the correct background preparation and correct mixing and application procedures. Very low or very high ambient conditions can also have an adverse effect on the application.

SURFACE PREPARATION

Allow all new concrete work and screeds to cure for at least 6 weeks and 4 weeks respectively before proceeding. The substrate must have a moisture content of 5% (75% RH) or less before the TAL SUPERSCREED application can be commenced.

The substrate must be structurally sound, clean and dry and free from all traces of surface laitance and contamination such as dust, dirt, waxes, oils, bitumen, old adhesives, paint, grease, weak cement screeds, shutter release and curing agents, sealing compounds, etc. All damaged, defective, deteriorated, friable (powdery) and hollow sounding areas must be removed until a solid background is achieved. These areas must be made good before proceeding.

Bituminous compounds must be removed completely. Organic or fungal growth must be removed and the spores killed using an effective fungicide.

All holes or voids in the floor must be identified and filled with TAL RAPIDFIX, and all "highs" or trowel marks must be identified and ground down.

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Powerfloated, smooth and dense/impervious concrete should be prepared as follows :

Application Thickness 5mm or Less :

- The substrate must be suitably prepared to open the surface and to expose the aggregate, preferably by captive sandblasting, to achieve a Concrete Surface Profile (CSP) value of 2 - 3 (Light).

Application Thickness Exceeding 5mm :

- The floor surface must be thoroughly scabbled or scarified in cross-directions to a Concrete Surface Profile (CSP) value of 5 - 6 (Medium Scarification), or to ensure that the aggregate in the concrete is fully exposed and open.

FLOOR LEVEL SURVEY / FLOOR TOLERANCES

The success of an installation is highly dependent on the background conditions and the quality of the background preparations before applying TAL SUPERSCREED.

Since these installations are normally 3 – 5mm in thickness, it is important to ensure all highs and lows are identified and addressed before applying TAL SUPERSCREED.

The use of a 3m straight edge is recommended. In identifying the highs and lows the straight edge should be placed down and rotated through 360° around the centre point. This ensures that valleys and ridges are identified together with occasional highs and lows.

Please contact TAL if more detailed information regarding Floor Level Surveys is required.

CONSTRUCTION JOINTS / VOIDED JOINTS

Existing Joints :

All construction/cold joints and structural joints in the substrate, as well as structural cracks which may be dynamic before and/or after the TAL SUPERSCREED installation, must be extended through to the surface of the screed application in the form of voided joints. With regards to these voided joints already in the concrete slab, the full width of the joint should be maintained and extended through the screeds to the surface.

All voided joints in the substrate, including saw cuts, must be filled with TAL SEALMASTER CORD prior to the TAL SUPERSCREED application to prevent these joints from being filled with screed.

New Joints :

Bay divisions and construction joints should be incorporated in the screeds as for normal sand/cement screeds in accordance with the SABS/SANS Code of Practice, and in accordance with the Project / Site Engineer's recommendations.

Voided joints should also be located around the perimeter of all floors, against obstructions fixed to the structural background, and around all protruding fixtures such as walls, columns and stairs.

PRIMING

The floor must be thoroughly swept to remove all traces of dust and loose particles, taking care to remove the dust rather than redistribute it. (Vacuuming is preferred.)

The substrate must have a moisture content of 5% (75% RH) or less before proceeding.

- **Woodfloated (rough, porous) Surfaces** - Prime the surface with a liberal coat of TAL FLOOR PRIMER, ensuring that the entire surface is covered with the priming coat. **NOTE :** Very porous floors may require more applications of TAL FLOOR PRIMER, and each coat should be applied in a cross-direction to the previous application once the previous coat is touch dry.
- **Powerfloated / Steelfloated (smooth, dense) Surfaces** - Prime the surface with a slurry consisting of 1 part TAL FLOORKEY mixed with 2 parts TAL RAPIDFIX (by volume) which is applied by block brush, ensuring that the entire surface is covered with the slurry priming coat.

TAL SUPERSCREED must be applied when the priming coat is dry and well anchored to the substrate.

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MIXING

Add 20kg TAL SUPERSCREED to 5 litres of clean water while stirring slowly with an electric drill of 1.1kW with a mixing paddle attachment, and mix until a smooth, lump-free viscous liquid is obtained. **THE TEMPERATURE OF THE WATER MUST BE BETWEEN 15 - 25°C WHEN MIXED WITH SUPERSCREED.** Stir occasionally whilst in use. Do not mix up more than can be used in 20 – 30 minutes. For best results use a full bag in one mix.

TAL SCREEDBINDER should replace the water in the mix when TAL SUPERSCREED is applied in high traffic areas, commercial installations where rubber caster wheels form the majority of the traffic, all exterior/exposed areas, 'wet' areas, where building movement is expected, and where thermal expansion and contraction is expected (ie under tile heating).

NB : Never add more liquid to a mix which has been left standing for too long (retempering) as this will compromise the integrity of the screed.

APPLICATION

Pour the mix onto the floor and spread using a 600mm extended straight edge steel trowel and work until a smooth, level surface is achieved. TAL SUPERSCREED can be applied from featheredge up to 12mm in a single operation. Trowel marks and high spots can be removed with coarse sandpaper or a corundum stone when the screed is dry.

Allow the screed layer to dry for 3 – 4 hours at 1 – 2mm thickness. Grind the floor down where necessary to remove all trowel marks before applying the next layer.

Apply a further coat of TAL SUPERSCREED mixed with TAL SCREEDBINDER as before, if required. **The floor must be primed with a coat of TAL FLOOR PRIMER before each subsequent application of TAL SUPERSCREED. The TAL SUPERSCREED must be applied when the TAL FLOOR PRIMER coat is TOUCH DRY.** Repeat as necessary until the desired finish and level is achieved. Grind the floor down to remove any trowel marks.

DRYING TIMES

New screeds should be protected from other building operations and trades until fully cured.

Drying times and trafficking vary from 3 hours upwards dependent on the thickness of the application. Allow the layer to dry fully before proceeding with laying floor covering or subjecting to traffic. When screeds above 3mm thickness are laid they must be allowed to dry overnight before trafficking or installing floor coverings.

Floor coverings can be fixed after 24 hours, depending on application thickness and ambient conditions, once the moisture content of the floor has been tested and confirmed suitable to receive the intended floor covering. Any moisture trapped below vinyl flooring or other coatings may result in the vinyl flooring or coating 'bubbling'.

Before floor coverings are installed a further Floor Level Survey should be carried out on the floor using a 3m straight edge, as before. Any 'highs' must be identified and removed by rubbing using a corundum stone. Any 'lows' must be filled using TAL SUPERSCREED.

COVERAGE

Coverage is approximately 1.8kg / m² / mm thickness.

PACKAGING

TAL SUPERSCREED is available in 20kg bags.

STORAGE & SHELF LIFE

When stored in dry internal conditions between 10°C and 30°C and out of direct sunlight the product has a shelf life of 6 months from date of manufacture. Never store directly on a concrete floor.

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WARNING

DO NOT INGEST. USE ONLY AS DIRECTED. WEAR PROTECTIVE GLOVES AND GOGGLES. USE A SUITABLE DUST MASK WHEN MIXING. WORK IN A WELL-VENTILATED AREA. DISPOSE OF THIS PRODUCT IN ACCORDANCE WITH LOCAL REGULATIONS. CONTACT TAL FOR FURTHER HEALTH AND SAFETY INFORMATION.

PRODUCT GUARANTEE

TAL products are manufactured and tested in accordance with TAL procedures, which are maintained in line with Quality Control System Standard ISO 9001 : 2008. TAL products are guaranteed to be free from manufacturing defects and fit for design purposes.

This guarantee is subject to the performance of TAL products when used strictly in accordance with their materials and methods specifications for the particular project, and where good workmanship is followed. However, we have no influence over specific site conditions and therefore, if in doubt, the user must always carry out sufficient tests to satisfy himself/herself that the product is suitable for the intended purpose. In special cases, obtain professional advice.

TAL cannot be held responsible for the standard of workmanship on site, or any problems caused by unsound structures or foundations, cracking of the substrate, deflections of slabs or backgrounds, vibration, creep movement of the structure, etc, or any products which have been adulterated, contaminated or misused in any way. The aforementioned list is not exhaustive.

NOTE : we require timeous notification, in writing, of an alleged defect and the opportunity to assess and investigate the problem to our satisfaction prior to any remedial work whatsoever being carried out.

TAL TECHNICAL ADVICE CENTRE

For a detailed Materials and Methods Specification contact the TAL Technical Advice Centre on 0860 000 TAL(825), or e-mail taltech@norcrossa.com

Branches : Gauteng (011) 206-9700; Cape (021) 386-1810; Natal (031) 579-2263

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