

TECHNICAL DATA SHEET

SUREPROOF SHOWER CEMENTITIOUS WATERPROOFING

QUICK
SETTING

CMO
EN14891

Fibre-enriched cementitious
waterproofing for shower walls and
floors



DESCRIPTION

TAL Sureproof Shower is a tough, flexible, and seamless fibre enriched quick-setting cementitious slurry-applied waterproofing membrane specifically designed for the DIY market for waterproofing of showers and bath surround walls in residential applications. (TAL Sureproof or TAL Superflex I waterproofing compounds should be used for commercial applications.) The fibre content provides enhanced crack-bridging properties and flexibility. TAL Sureproof Shower is fully compatible with cement-based tile adhesives and can be tiled directly onto without the need for primers.

NB :

- The substrate must attain a moisture content of less than 8% before TAL Sureproof Shower can be applied.
- As TAL Sureproof Shower is fibre enriched, reinforcing membrane is not required for ground floor applications. However, on suspended slabs where movement or deflection is anticipated a suitable 16-micron woven glass-mesh reinforcing membrane, such as TAL Sureproof Membrane, should be used as reinforcing in critical areas such as internal corners and interfaces, coving areas, around drains and plumbing fittings, etc. The reinforcing membrane should also be used over joints between boards/sheets.

Note: This product is designed for the above-mentioned application only. TAL will not be liable for misuse or adulteration of the product.

FEATURES

- Quick setting
- Flexible
- No membrane required

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CLASSIFICATION ACCORDING TO EN14891

TAL Sureproof Shower is classified as a CMO membrane material (Cementitious Liquid-applied Water Impermeable Membrane (CM), with minimal Crack Bridging Ability at Low Temperature (O)

VOC CONTENT:

VOC = 75 g/L*

*Based on historical data – testing in progress at the time of publication of this data sheet.

TECHNICAL DATA:

Type	1K Cementitious Waterproofing
Setting Type	Quick setting
Colour	Grey powder
Packaging	5kg plastic lined bucket
Mix Ratio of powder: water	5kg/1.9 to 2L
Application Temperature Range (Ambient)	10°C - 30°C
Pot Life*	1 hour 15 mins
Open Time* (working time after mixing)	20-30 minutes
Time between Coats*	Minimum 2 Hours
Initial Set*	Minimum 12 Hours
Tiling Installation*	24-36 hours, depending on site and ambient conditions
Recommended Application Thickness	1.5 – 2mm
Temperature Resistance	5°C - 50°C
Density	1.3

* At 23°C and 50% relative humidity.

The above data was obtained under laboratory conditions using freshly manufactured material. Actual results in the field will vary as a result of factors such as Ambient Temperatures, Site Conditions, etc.

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TOOLS & EQUIPMENT REQUIRED

Broom

Mechanical Mixer, i.e. minimum 1.4KW drill with suitable paddle mixer

Builders Block Brush

TAL Floor Primer – Primer for Highly Porous Substrates

TAL Keycoat + TAL Keymix – Slurry priming coat for Wooden Surfaces

SURFACE PREPARATION

All new substrates must be allowed sufficient curing/drying time to ensure the tile installation is not compromised by drying shrinkage movement in the substrate.

All Substrates must attain a Moisture Content of less than 8% before the TAL Sureproof Shower application can be commenced.

Any screeding or rendering must be firmly bonded to the underlying concrete or brickwork, and the substrate must be structurally sound (no crumbling, cracking, etc) and of a quality and consistency suitable for waterproofing and tiling. All damaged, defective, deteriorated, or hollow sounding areas must be removed and made good before proceeding.

The substrate must be clean and free from all traces of surface laitance and contamination such as dust, dirt, waxes, oils, old adhesives, paint, grease, weak cement screeds and renders, shutter release and curing agents, sealing compounds, etc.

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

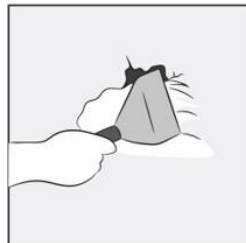
Any surface defects such as holes must be filled with a suitable quick-setting repair compound and all protrusions which may pierce the membrane must be removed.

Boards and sheets must be in good condition, firm and sound, and must be thoroughly braced (ie positively fixed to the framework) at **maximum 300mm centres** in both directions (**screwed, not nailed**). Only 'exterior grade' board should be used in 'wet' applications.

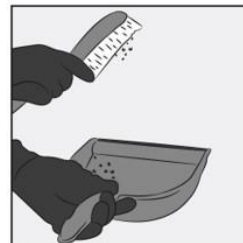
TAL Sureproof Shower can be applied to a damp (**but not wet**) surface. Dry surfaces are preferred.



Ensure the moisture content of the shower walls and floor is less than 8%.



Fill any holes or surface defects with a suitable quick-setting repair compound



Ensure the surface is integrally sound, clean and free from any contamination such as dust, dirt, waxes, bituminous compounds and organic or fungal growth

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PRIMING

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

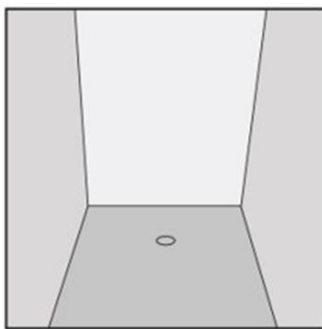
No priming is required onto render or screed surfaces that are clean and dry and free of all traces of dust, loose particles and surface contaminants which could impair adhesion.

Highly Porous Substrates - prime with a coat of neat **TAL Floor Primer**.

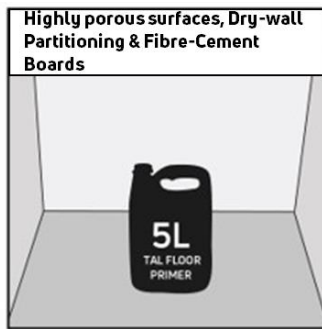
Dry-wall Partitioning / Fibre-Cement Boards (exterior grade) – prime with a coat of neat **TAL Floor Primer**.

Wooden Surfaces (exterior grade) – prime with a **TAL Keycoat + TAL Keymix** slurry.

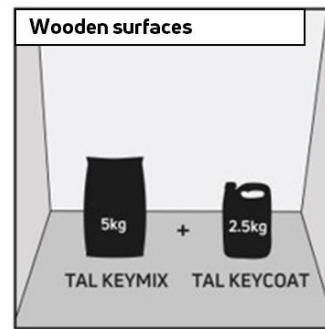
Apply the priming coat using a builder's block brush or suitable roller, ensuring complete coverage of the substrate. Allow to dry, approximately 2 – 3 hours depending on site and ambient conditions and substrate porosity, and ensure it is well anchored to the substrate before proceeding.



Priming of the surface is **not** required onto render or screed surfaces that are clean, dry and free from contaminants



Prime with a coat of neat **TAL FLOOR PRIMER**.



Prime with a **TAL KEYCOAT + TAL KEYMIX** slurry

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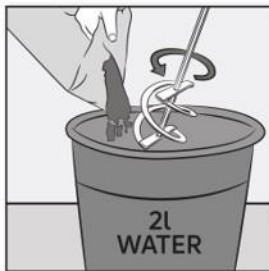
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MIXING

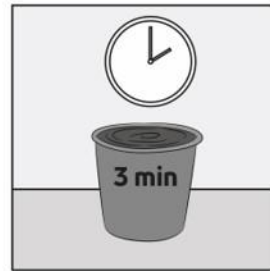
Measure between 1.9 to 2.0L of cool, clean water into the clean bucket provided, and add the **TAL Sureproof Shower** powder whilst stirring slowly with an electric drill of minimum 1.4 Kw with a suitable mixing paddle attachment. Stir at low speed until a smooth, lump-free viscous liquid is obtained. Allow to stand for a few minutes and then stir again before use (shear thinning).

For optimum results it is recommended to mix the entire bucket contents in one mix, ie part mixing is not recommended.

The pot life of **TAL Sureproof Shower** is approximately 1 hour at 23°C and 50% RH. Do not mix up more than can be used in that time.



Mix the **TAL SUREPROOF SHOWER** with a 2L of cool water. Using a mechanical mixer, mix to a smooth lump-free, viscous liquid, while adding powder.



Let it stand for 3 minutes and then stir again.

NB:

- **Never add more liquid to a mix which has been left standing for too long, as this will compromise the integrity of the adhesive.**
- **Warm weather conditions and/or substrate and water temperatures (generally, temperatures above 30°C) may shorten the working time of the mixture.**
- **Low ambient temperatures and/or substrate and water temperatures (generally, temperatures below 15°C) will slow the setting and curing time.**

APPLICATION

The surface must be clean and free of all traces of dust, loose particles and surface contaminants which could impair adhesion.

TAL Sureproof Shower must be applied to the clean, prepared substrate using a builder's block brush.

• Small Cracks :

TAL Sureproof Shower can be used to fill small hair-line shrinkage and static cracks (less than 2mm wide).

TAL Sureproof 2K cementitious or **TAL Superflex I** membrane-reinforced acrylic waterproofing compounds should be used when larger cracks are encountered.

• Joints between Boards and Sheets

The boards and sheets must be positively fixed to each other, and the corners and edges should align in plane, without any lippage.

Apply a coat of **TAL Sureproof Shower** by block brush over all joints in the dry-wall partitioning and wooden panels.

Immediately roll out the reinforcing membrane (200mm wide) into the wet **TAL Sureproof Shower** with the membrane extending 100mm equally on either side of the joint, ensuring that there are no wrinkles in the membrane or air bubbles trapped below the membrane.

Apply a heavy topcoat of **TAL Sureproof Shower** to completely saturate the membrane **before the first coat dries**.

• Coving Areas / Internal Corners & Interfaces / Tap & Rose Plumbing (Suspended Slabs only)

Apply the first coat of **TAL Sureproof Shower**, then immediately apply the reinforcing membrane (200mm wide) into the wet coat. The membrane must be pushed into the corners, ensuring that the entire interface is covered with the reinforcing membrane.

Apply a second coat of **TAL Sureproof Shower** to completely saturate the membrane **before the first coat dries**.

The **TAL Sureproof Shower** application should be taken up underneath any existing cover flashing or appropriate flashing should be applied.

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APPLICATION CONTINUED

- **Floor Wastes & Drains (Suspended Slabs only)**

Apply a coat of **TAL Sureproof Shower** up the pipe and immediately bed the reinforcing membrane into the wet **TAL Sureproof Shower**. Apply a heavy coat of **TAL Sureproof Shower** over the membrane to completely saturate the membrane **before the first coat dries**.

For wastes that are flush with the floor, take the application down into and around the waste or use the puddle flange system (check local council regulations).

- **Main Area Applications – Shower Floors and Walls, Bath Surround Walls**

Two coats of TAL Sureproof Shower must be applied to ensure a minimum of 1.5mm thickness is achieved.

Apply the first coat of **TAL Sureproof Shower** to the dry, suitably prepared surface using a builder's block brush and allow to dry (approximately 1 – 2 hours, depending on site and ambient conditions).

Apply the second coat of **TAL Sureproof Shower** in a **cross direction to the first coat** to ensure complete coverage, with no air entrapment or pinholes.

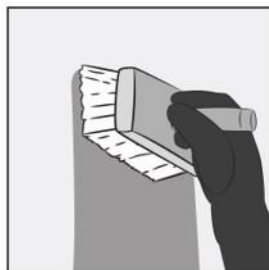
Ensure that the Main Area application overlaps the Coving Areas / Internal Corners & Interfaces / Tap & Rose Plumbing / Floor Waste/Drain applications **by at least 50mm**.

Allow the **TAL Sureproof Shower** system to dry completely (approximately 24 – 36 hours, depending on site and ambient conditions) before being subjected to **light** foot traffic or the application of tiles.

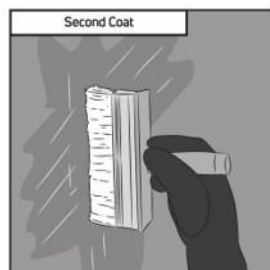
NB :

Shower Walls must be waterproofed up to full Shower Rose Height.

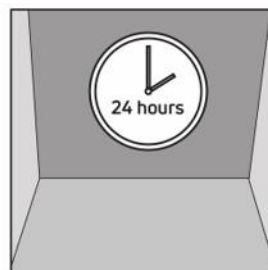
The TAL Sureproof Shower system must extend at least 50mm above shower plinth height and where no plinth exists, at least 100mm above the highest point of the shower recess floor. It is advisable to flood test the shower 24 hours after curing. This should be done before tiling commences.



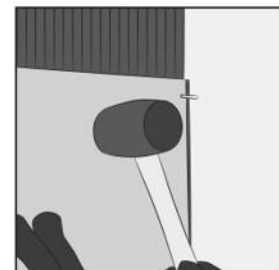
Apply the first coat of **TAL SUREPROOF SHOWER** to the clean, dry, primed surface with a block brush and allow to dry (approximately 1-2 hours).



Apply the second coat of **TAL SUREPROOF SHOWER** in a **cross direction** to the first coat to ensure complete coverage, with no air entrapment or pinholes.



Allow the **TAL SUREPROOF SHOWER** system to dry completely (24-36 hours, depending on ambient and site conditions) before being subjected to light foot traffic or the application of tiles.



Tile with a quick or rapid setting latex-modified adhesive according to the manufacturer's instructions.

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DRYING TIMES

Usually within 24 – 36 hours, depending on ambient temperatures and substrate porosity. **TAL Sureproof Shower** dries by reaction between powder and liquid, moisture evaporation and absorption into the substrate, so allow longer for substrates with low porosity or in cold ambient conditions.

APPROXIMATE COVERAGE

Coverage is approximately 3m² per 5kg Bucket at 1.5 - 2.0mm thick cured film.
Actual coverages will be determined by application thickness, site conditions, workmanship, etc.

CLEANING

Dry powder spillages – sweep off or vacuum powder spillages, ensuring reduced exposure to moisture which potentially activates the adhesive.

Mixed product – wipe the area with a DAMP (not wet) sponge before the adhesive has dried.

Dry product should be removed using **TAL Epoxy Cleaning Fluid** or **TAL Epoxy Cleaning Gel**.

Clean hands and tools with warm, soapy water before the product dries.

TILING OVER TAL SUREPROOF SHOWER

Allow the **TAL Sureproof Shower** system to dry before fixing tiles. Due to the impervious nature of the waterproofed substrate, only rapid- or quick-setting adhesives should be used.

Adhesive System : Use **TAL Goldstar 6** or **TAL Goldstar 12** mixed with **TAL Bond** (replacing the water in the mix) to fix the tiles in a solid bed of adhesive.

Alternatively, **TAL Bond Powder** may be added to the adhesive mixing water, at a ratio of 1 x 1kg sachet **TAL Bond Powder** per 20kg **TAL Goldstar**.

Grout : Allow the adhesive to set sufficiently (refer to adhesive packaging for setting times), and then grout with **TAL Wall & Floor Grout** mixed with **TAL Bond** (replacing the water in the mix).

Alternatively, **TAL Bond Powder** may be added to the grout mixing water, at a ratio of 1 x 1kg sachet **TAL Bond Powder** per 20kg **TAL Wall & Floor Grout**.

Do not use showers for at least 3 days after completion of tiling and grouting to ensure that the installation is fully cured.

PACKAGING

5kg Plastic lined Bucket

STORAGE & SHELF LIFE

When stored in the original sealed packaging in dry internal conditions between 10°C and 30°C and out of direct sunlight the product has a shelf life of 12 months from date of manufacture.

Never store directly on a concrete floor.

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LIMITATIONS

TAL Sureproof Shower is to be used as supplied by the manufacturer. Do not attempt to add cement or sand to the powder as this will adversely affect the final performance and cause cracking.

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

Do not apply **TAL Sureproof Shower** in temperatures below 10°C or greater than 30°.

TAL Sureproof Shower is non-hazardous. However, in the case of eye contamination, rinse thoroughly and seek medical advice.

TAL Sureproof Shower should NOT be used over surfaces where rising damp is a problem.

Do not tile over **TAL Sureproof Shower** until it has fully cured, (24 – 36 hours, depending on ambient conditions and substrate porosity) and do not leave exposed to foot traffic.

Contact TAL when excessive cracks or joints in the substrate are encountered.

WARNING

Do not ingest or inhale. Use only as directed. Keep out of reach of children. 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 & Safety information.

TAL 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, OSHAS 18001 and Environmental Management System ISO 14001.

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 themselves that the product is suitable for the intended purpose. In special cases, obtain professional advice.

TAL shall not be liable for the standard of workmanship on site, or for any defects or damage due to external causes or factors beyond the control of TAL including, without limitation, unsound structures or foundations, building movement (cracking, creep, deflection, vibration, etc), design defects, earth tremor or other seismic disturbances, land slip, fire, flood or other immersion, or any products which have been adulterated, contaminated or misused in any way. The 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@tal.co.za

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