

DESCRIPTION

TAL SUREPROOF is a tough, flexible and seamless rapid-drying two-part liquid-applied waterproofing membrane. It is suitable for waterproofing shower recesses, internal wet areas, external decks, planter boxes and light trafficked roofs. Applied by brush or (red) enamel paint roller, TAL SUREPROOF possesses excellent flexibility and UV resistance which allows it to be left exposed on rooftops subjected to light foot traffic.

The TAL SUREPROOF system consists of:

1. TAL SUREPROOF liquid – water based, non toxic, low viscosity flexible acrylic co-polymer developed to combine with TAL SUREPROOF powder
2. TAL SUREPROOF powder – a grey powder composed of cement, fine graded sands and synthetic resins specially formulated to combine with TAL SUREPROOF liquid

The TAL SUREPROOF system must be used in conjunction with:

1. TAL FLOOR PRIMER – primer for rough, porous surfaces or TAL KEYCOAT – primer for smooth, dense, impervious surfaces
2. TAL SUREPROOF MEMBRANE (200mm wide) – used as reinforcement in coving areas, internal corners and interfaces, and over cracks in the substrate

AREAS OF APPLICATION

TAL SUREPROOF can be applied onto :

- Light trafficked rooftops, walkways and decks that require a moderately textured and tough membrane. In these areas occasional foot traffic is permitted
- Planter boxes, retaining walls and basements NOT subjected to rising damp
- Bathrooms, shower recesses, laundries, and all wet areas required a tiled finish
- Swimming pools and wading pools when covered with tiles or decorative toppings
- Climates with low temperatures or high humidity where drying times are normally extended
- Wet areas where low moisture evaporation and poor ventilation extends the drying times of single component membranes
- Water containment areas such as water features, ponds and fountains
- Walls and floors over concrete, cement render, marine plywood, metal, fibre cement sheets, and exterior grade plasterboard

PRECAUTIONS

- TAL SUREPROOF is non hazardous. However, in the case of eye contamination, rinse thoroughly and seek medical advice
- TAL SUREPROOF should not be used over surfaces where rising damp is a problem
- Do not apply TAL SUREPROOF in temperatures below 5°C or greater than 35°C. The waterproofing application should not be commenced if rain appears imminent
- TAL SUREPROOF is to be used as supplied by the manufacturer. Do not attempt to thin the liquid or add sand to the powder as this will adversely affect the final performance and cause cracking
- Do not tile over TAL SUREPROOF until it has fully cured and do not leave exposed to heavy foot or vehicular traffic
- Contact TAL when excessive cracks or joints are encountered



SUREPROOF®

Waterproofing System

- Easy to use
- Resilient and flexible
- Can be used on many different surfaces
- Rapid drying
- Tiles may be directly applied
- UV Resistant

PART 1

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TECHNICAL ADVICE CENTRE NATIONWIDE 0860 000 TAL(825)



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PART 2

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TECHNICAL ADVICE CENTRE NATIONWIDE 0860 000 TAL(825)

Another successful installation guaranteed

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TECHNICAL DATA

Characteristics of liquid material	
Form and Colour	White Liquid
Specific Gravity	1,0kg/ℓ
pH of Liquid	7.0 - 9.0
Viscosity of Liquid (Brookfield, spindle 3, speed 20)	1000 - 2000 cps
Non Volatile Matter	51 - 54%
Characteristics of powder material	
Form and Colour	Grey powder
Bulk Density	Approx 1.4k/ℓ
Characteristics of mix	
Mixing Ratio of Powder: Liquid	1:1
Viscosity (Brookfield, spindle 5, speed 20)	12000 - 20000 cps
Tack Free Time	Approx 2 hours
Pot Life	Approx 1 hour

SURFACE PREPARATION

The surface must be structurally sound, clean and dry and free from shutter release and curing agents, laitance and surface contamination such as dust, dirt, waxes, oils, old adhesives, paint, grease, sealants, weak cement screeds and renders, etc. Bituminous compounds must be removed completely. New concrete or screeds must be at least 28 days old, and new renders or brickwork must be at least 14 days old. Any surface defects must be made good (holes can be filled using TAL RAPIDFIX) and all protrusions which may pierce the membrane must be removed. TAL SUREPROOF can be applied to a damp (but not wet) surface. Dry surfaces are preferred. Cementitious backgrounds must have a moisture content of 5% or less before the waterproofing application can be commenced.

Concrete	-	must be at least 42 days old
Screed	-	must be at least 28 days old
Render	-	must be at least 14 days old
Boards and sheets	-	must be securely fastened to the framework at maximum 300mm centres in both directions

PRIMING

All surfaces to be waterproofed must be primed, as follows:

Woodfloated (rough, porous) surfaces - prime with a coat of neat TAL FLOOR PRIMER

Powerfloated or steel-trowelled (smooth, dense, impervious) - prime with a slurry consisting of 1 part TAL KEYCOAT mixed with 2 parts cement (by volume), which is brushed onto the floor.

Wooden surfaces – prime with TAL WOODSEAL, then prime with a TAL KEYCOAT slurry within 2 – 4 HOURS of the WOODSEAL application

Metal surfaces – prime with an anti-corrosive primer, then prime with a TAL KEYCOAT slurry

Partition walling – prime with a coat of neat TAL FLOOR PRIMER. Allow to dry, then apply a second coat of TAL FLOOR PRIMER in a cross direction

Allow the priming coat to dry, approximately 20 – 30 minutes depending on weather conditions, before proceeding with the SUREPROOF application.

MIXING

Mixing ratio of powder : liquid is 1:1, ie 10kg powder to 10ℓ liquid. Pour the powder into the liquid whilst stirring with a low speed mechanical stirrer and stir until a smooth, lump-free paste is obtained. Allow to stand for a few minutes and then mix again before use.

The pot life of TAL SUREPROOF is approximately 1 hour at 23°C and 50% RH.

APPLICATION

Small cracks :

- Remove loose particles and clean thoroughly
- Prime with TAL FLOOR PRIMER
- Fill cracks with a high quality silicone sealant
- Apply the first coat of TAL SUREPROOF, then immediately apply the TAL SUREPROOF MEMBRANE into the wet coat. Immediately apply a second coat of TAL SUREPROOF to completely saturate the membrane

Movement and Construction Joints :

- Remove loose particles and clean thoroughly
- Prime with TAL FLOOR PRIMER
- Fill the joints with a high quality silicone sealant
- Apply the first coat of TAL SUREPROOF, then immediately apply the TAL SUREPROOF MEMBRANE into the wet coat. Immediately apply a second coat of TAL SUREPROOF to completely saturate the membrane
- NOTE : When tiling, all movement joint and construction joints must be carried through to the face of the tiles
- Fill the joints between the tiles on top of the movement joints with an appropriate joint sealant

Coving Areas and Internal Corners

- Remove loose particles and clean thoroughly
- Prime rough, porous surfaces with TAL FLOOR PRIMER and smooth, dense or impervious surfaces with a TAL KEYCOAT slurry coat (1 part TAL KEYCOAT to 2 parts ordinary cement, by volume). Paint the primer onto the surface using a block brush, and allow to dry completely before proceeding.
- To allow for movement, apply a 10mm silicone bead in the coving areas and corners.
- Apply the first coat of TAL SUREPROOF, then immediately apply the TAL SUREPROOF MEMBRANE into the wet coat. The membrane must be pushed into the corners, ensuring that the entire interface is covered with SUPERFLEX MEMBRANE. Apply a second coat of TAL SUREPROOF to completely saturate the membrane before the first coat dries
- The TAL SUREPROOF application should be taken up underneath any existing cover flashing or appropriate flashing should be applied

Roof Penetrations :

- Place a suitable flanged metal upstand around pipes or vents.
- Prime the flanged metal with a suitable metal primer and allow to dry
- The pipes must be primed with a TAL KEYCOAT Slurry (1 part TAL KEYCOAT to 2 parts cement, by volume). Allow the slurry coat to dry completely before proceeding.
- To allow for movement, apply a 10mm silicone bead in the coving areas and corners.
- Apply the first coat of TAL SUREPROOF, then immediately apply the TAL SUREPROOF MEMBRANE on the substrate and flanged metal. The membrane must be pushed into the corners, ensuring that the entire interface is covered with SUPERFLEX MEMBRANE. Apply a second coat of TAL SUREPROOF to completely saturate the membrane before the first coat dries
- Place a suitable flashing collar around the penetration, sealing it to the pipe with a suitable sealant

Shower Recesses :

- Internal Corners and Interfaces
 - To allow for movement, apply a 10mm silicone bead in all internal corners and joint around the waste pipe / floor waste and around the tap and rose plumbing.
 - Apply the first coat of TAL SUREPROOF to these areas, then immediately apply the TAL SUREPROOF MEMBRANE into the wet coat. The membrane must be pushed into the corners, ensuring that the entire interface is covered with SUPERFLEX MEMBRANE. Apply a second coat of TAL SUREPROOF to completely saturate the membrane before the first coat dries
- Floor Waste
 - Apply a coat of TAL SUREPROOF up the pipe and immediately position the TAL SUREPROOF MEMBRANE into the wet TAL SUREPROOF. Apply a second coat of SUREPROOF to completely saturate the membrane. 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)
- Walls and Floors
 - Apply TAL SUREPROOF with a brush or enamel paint roller of the wall and floor area and allow to dry. Apply a second coat in the opposite direction to ensure complete coverage and no air entrapment.
 - Ensure that the main application overlaps the corner and floor waste applications by at least 50mm.
 - NOTE : The TAL SUREPROOF system must extend at least 50mm above hob height and where no hob exists, at least 100mm above the highest point of the shower recess floor. It is advisable to flood tests the shower 24 hours after curing. This should be done before tiling commences.

Roof Slabs and Balconies :

- Roof slabs must have a minimum slope of one degree and provisions for drainage.
- Two coats of TAL SUREPROOF must be applied to ensure a minimum of 1.2mm thickness is achieved. Apply the first coat of TAL SUREPROOF to the dry, primed surface with a brush or enamel paint roller and allow to dry (approximately 1 – 2 hours).

TAL SUREPROOF®

- Apply the second coat of TAL SUREPROOF in a cross direction to ensure complete coverage, with no air entrapment or pinholes.
- Ensure that the main application overlaps the corner applications by at least 50mm
- Allow the TAL SUREPROOF system to dry completely (approximately 24 hours, depending on weather conditions) before being subjected to light foot traffic or the application of covering materials, eg ceramic tiles.

DRYING TIME

Usually within 24 – 36 hours, depending on ambient temperatures and surface porosity. TAL SUREPROOF dries by reaction between powder and liquid, moisture evaporation and absorption into the substrate, so allow longer for surfaces with low porosity. Allow TAL SUREPROOF to cure before subjecting the floor to light foot traffic (at least 24 hours). Do not use showers for at least 72 hours after application of TAL SUREPROOF. This ensures application is thoroughly cured.

TILING OVER SUREPROOF

Allow the TAL SUREPROOF system to dry (approximately 24 - 36 hours, depending on ambient conditions) before fixing tiles. **ADHESIVE :** Use TAL GOLD STAR 6 mixed with TAL BOND (replacing the water in the mix) to fix the tiles in a solid bed of adhesive.

GROUT : Allow the adhesive to dry, and then grout with TAL WALL & FLOOR GROUT mixed with TAL BOND (replacing the water in the mix).

Do not use showers for at least 72 hours after completion of tiling and grouting to ensure that the installation is fully cured.

COVERAGE

Coverage is approximately 12 – 15m² per 20kg kit at 1.2mm thick cured film. This is also dependant on the amount of TAL SUREPROOF MEMBRANE used.

PACKAGING

TAL FLOOR PRIMER is available in 5l and 25l bottles

TAL KEYCOAT is available in 1l, 5l and 20l bottles

TAL SUREPROOF is available in 20kg kits.

TAL SUREPROOF MEMBRANE is available in 200mm x 10m rolls.

STORAGE & SHELF LIFE

When stored in dry internal conditions between 5°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.

WARNING

DO NOT INGEST. USE ONLY AS DIRECTED. WEAR PROTECTIVE GLOVES AND GOGGLES. USE A SUITABLE DUST MASK. WORK IN A WELL VENTILATED AREA.

TAL GUARANTEE

TAL products are manufactured and tested to TAL procedures, which are maintained in accordance with Quality System Standard ISO 9001 : 2000. TAL products are guaranteed to be free from manufacturing defects and fit for design purposes. TAL guarantees the performance of its products when used strictly in accordance with TAL's materials and methods specifications and good working practice.

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 : Johannesburg (011)316-3133; Cape (021) 386-1810; Natal (031) 700-1535

PRECAUTIONS

Contact TAL (Pty) Ltd for further health and safety information. Dispose of this product in accordance with local regulations.

IMPORTANT NOTICE

TAL believes the information on this sheet to be correct – but does not guarantee its accuracy or completeness. Conduct your own tests of this product to determine its suitability for intended use. User assumes all risks and liability during testing and use of this product. The only obligation of TAL shall be to replace any of this product proved to be defective in material. TAL shall not be liable for any injury, loss or damage, direct or consequential, relating to the use or inability to use this product. Except as expressly provided above, all products sold and samples furnished without any warranty of merchantability or any other warranty, express or implied. TAL (Pty) Ltd reserves the right to change the information on this datasheet.

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