DESCRIPTION

TAL SUPERFLEX is a ready to use acrylic based liquid waterproofing system which may be applied by brush or paint roller. When reinforced with TAL SUPERFLEX MEMBRANE, it cures to provide a flexible, waterproof membrane capable of accommodating normal structural movement in the background and is suitable for waterproofing shower recesses, internal wet areas, external decks, **non-trafficable** roof slabs and parapet walls.

Note : TAL SUPERFLEX MEMBRANE must be used as reinforcing throughout the installation.

The TAL SUPERFLEX system consists of :

TAL SUPERFLEX – a highly modified acrylic waterproofing compound that bonds well to prepared surfaces
TAL SUPERFLEX MEMBRANE – a non-woven polyester cloth used as a reinforcing membrane

The TAL SUPERFLEX system must be used in conjunction with :

TAL FLOOR PRIMER – primer for rough, porous surfaces or TAL FLOORKEY – primer for smooth, dense surfaces

Classification According to EN14891 :

TAL SUPERFLEX is classified as a DMO membrane material (Dispersion Liquid-applied Water Impermeable Membrane (DM), with Crack Bridging Ability at Low Temperature (O)).

VOC Content :

Specification : Green Building Council of South Africa Office Design V1 IEQ-13 Green Star Office Interiors V1.1 IEQ-11	
Architectural Sealant : Maximum Limit 250 grams per Litre as VOC content material	TAL SUPERFLEX : < 1.0g / ℓ as VOC content material

FEATURES

- easy to apply
- one component, no mixing of numerous products
- water based, no solvent hazard
- lightweight
- excellent adhesion to most substrates after correct surface preparation
- is not affected by ponding water when fully cured, ie will not re-emulsify
- flexible – moves with the structure in normal expansion and contraction conditions
- seamless – no weak joints or seams
- UV resistant – good resistance to ageing
- simple to repair in the event of damage
- available in White, Grey and Beige

AREAS OF APPLICATION

TAL SUPERFLEX is suitable for :

- Waterproofing interior and exterior surfaces subjected to water penetration (NOT rising damp).
- Bathrooms, shower recesses, laundries, and all wet areas requiring a tiled finish.
- Swimming pools and wading pools when covered with tiles or decorative toppings.
- Water containment areas such as water features, ponds and fountains when covered with tiles or decorative toppings.

- Walls and floors over concrete, cement render, marine plywood, metal, fibre cement sheets, and exterior grade plasterboard

PRECAUTIONS

- TAL SUPERFLEX is non-hazardous. However, in the case of eye contamination, rinse thoroughly and seek medical advice.
- TAL SUPERFLEX should not be used over surfaces where rising damp is a problem.
- Do not apply TAL SUPERFLEX in temperatures below 10°C or greater than 30°. The waterproofing application should not be commenced if rain appears imminent – rain will dilute the wet SUPERFLEX and cause run-off. (It should be protected from rain or water immersion for at least 3 days after application.)
- TAL SUPERFLEX is only to be used as supplied by the manufacturer.
- Do not tile over TAL SUPERFLEX until it has fully cured (minimum 3 days).
- TAL SUPERFLEX must not be used as a tanking membrane.

SURFACE PREPARATION

All substrates must have a moisture content of 3% or less before the TAL SUPERFLEX application can be commenced.

New floor and wall surfaces must be allowed to cure for the minimum periods detailed below to ensure that the waterproofing and tile installation is not compromised by drying shrinkage movement in the substrate :

- New concrete – 6 weeks
- New screed – 4 weeks
- New brickwork – 4 weeks
- New render – 2 weeks

Any screeding or rendering must be firmly attached 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 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, bitumen, old adhesives, paint, grease, weak cement screeds and renders, shutter release and curing agents, sealing compounds, etc. Organic or fungal growth must be removed and the spores killed using an effective fungicide.

Any surface defects must be made good (holes can be filled using TAL RAPIDFIX mixed with TAL SCREEDBINDER, as a total water replacement) 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 securely fastened to the framework) at maximum 300mm centres in both directions (screwed, *not nailed*).

PRIMING

All substrates to be waterproofed must be primed prior to the SUPERFLEX application, as follows :

- **Woodfloated (porous) surfaces** – prime with a coat of neat TAL FLOOR PRIMER.
- **Powerfloated or steelfloated (smooth, dense) surfaces** – prime with a slurry consisting of 1 part TAL FLOORKEY mixed with 2 parts TAL RAPIDFIX powder, TAL KEYMIX powder **or** TAL GOLDSTAR 6 or 12 powder (by volume), which is applied using a block brush.

- **Wooden surfaces (exterior grade)** – prime with TAL SUPERPRIME, then prime with a TAL FLOORKEY slurry within 6 – 30 HOURS of the SUPERPRIME application.
- **Metal surfaces** – mechanically abrade, solvent wipe (TAL CLEANING SOLVENT), prime with an anti-corrosive primer, then apply a TAL FLOORKEY slurry.
- **Partition walling (exterior grade)** – 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 2 – 3 hours depending on ambient conditions, before proceeding with the SUPERFLEX application.

APPLICATION

Small cracks :

TAL SUPERFLEX can be used to fill small hair-line shrinkage cracks. For cracks over 2mm, the following preparation is required :

- Remove loose particles and clean thoroughly.
- Fill the cracks with a high quality flexible silicone sealant.
- Apply a polyethylene tape over the crack, followed by the TAL SUPERFLEX system

Movement and Construction Joints (Will tolerate Normal Building Movement):

- Remove loose particles and clean thoroughly.
- Fill the joints with a high quality flexible silicone sealant.
- Apply the TAL SUPERFLEX and SUPERFLEX MEMBRANE to both sides of the joint.

  Alternatively, when the waterproofing is left exposed, carry the application of TAL SUPERFLEX over the expansion joint using polyethylene tape as a slip mat over the joint.
- 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 a suitable high quality resilient joint sealant.

Coving Areas / Internal Corners & Interfaces / Tap & Rose Plumbing

- Remove loose particles and clean thoroughly.
- Prime the substrate as instructed in **PRIMING** above.
- To allow for movement, apply a 10mm bead of flexible silicone sealant in the coving areas, in all horizontal and vertical corners and interfaces, and around the tap and rose plumbing.

  Due care must be taken to ensure that the silicone bead is not flattened out - ie the silicone must be allowed to cure for approximately 12 – 24 hours.
- Apply the first coat of TAL SUPERFLEX, then immediately apply the TAL SUPERFLEX 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 SUPERFLEX to completely saturate the membrane before the first coat dries.
- The TAL SUPERFLEX application should be taken up underneath any existing cover flashing or appropriate flashing should be applied.

Floor Wastes & Drains

- Apply a coat of TAL SUPERFLEX up the pipe and immediately bed the TAL SUPERFLEX MEMBRANE into the wet TAL SUPERFLEX. Apply a heavy coat of TAL SUPERFLEX 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).

Roof Penetrations :

- Place a suitable flanged metal upstand around pipes or vents.
- Approximately 20cm if the pipe from the surface of the slab should be mechanically abraded to roughen it and remove all traces of surface contaminants. After sanding, metal surfaces must be solvent wiped, using TAL CLEANING SOLVENT, to remove any residual release oil residues.
- Metal pipes must be primed with an anti-corrosive agent (eg zinc chromate), which must be left to dry completely before proceeding. All pipes must be primed with a TAL FLOORKEY slurry. Allow the slurry coat to dry completely before proceeding.
- To allow for movement, apply a 10mm bead of flexible silicone sealant around the base of the pipe.

  Due care must be taken to ensure that the silicone bead is not flattened out- ie the silicone must be allowed to cure for approximately 12 – 24 hours.
- Apply the first coat of TAL SUPERFLEX, then immediately bed the TAL SUPERFLEX MEMBRANE around the pipe and surrounding substrate. The membrane must be pushed into the corners, ensuring that the entire interface is covered with SUPERFLEX MEMBRANE. Apply a heavy topcoat coat of TAL SUPERFLEX 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 flexible sealant.

Roof Slabs and Balconies :

- Roof slabs and balconies must have a minimum slope of one degree and provisions for drainage.
- Prime the substrate as instructed in **PRIMING** above.
- Address **Coving Areas, Corners & Interfaces, Floor Wastes & Drains** as detailed above.
- Apply the first coat of TAL SUPERFLEX over the primed surface using a paint brush or roller. Immediately bed the TAL SUPERFLEX MEMBRANE into the wet SUPERFLEX. Ensure that there are no wrinkles or air bubbles trapped beneath the membrane and that the membrane is adhered to the substrate by pressing the membrane with the roller in 2 different directions. Apply a heavy coat of TAL SUPERFLEX over the membrane to completely saturate the membrane before the first coat dries.
- The membrane should have a minimum overlap of 50mm.
- Ensure that the main application overlaps the corner and floor waste applications by at least 50mm.
- Allow the SUPERFLEX system to dry completely (at least 3 days, depending on ambient conditions) before subjecting to ***light*** foot traffic or tiling is commenced.
- A third coat of TAL SUPERFLEX should be applied if the system is to be left exposed.
- TAL SUPERFLEX can be painted over using a high quality exterior grade acrylic paint.
- **Note : The waterproofing application must not be commenced if rain appears imminent. Rain will dilute uncured SUPERFLEX and cause run-off.** (It should be protected from rain or water immersion for at least 3 days after application.)

Shower Recesses :

- Prime the substrate as instructed in **PRIMING** above.
- Address **Coving Areas, Corners & Interfaces, Floor Wastes & Drains, and Tap & Rose Plumbing** as detailed above.
- Apply the first coat of TAL SUPERFLEX over the primed surface. Immediately bed the TAL SUPERFLEX MEMBRANE into the wet SUPERFLEX. Ensure that there are no wrinkles or air bubbles trapped beneath the membrane and that the membrane is adhered to the substrate by pressing the membrane with the roller in 2 different directions. Apply a heavy coat of TAL SUPERFLEX over the membrane to completely saturate the membrane before the first coat dries.
- The membrane should have a minimum overlap of 50mm.
- Ensure that the main application overlaps the corner and floor waste applications by at least 50mm.
- Shower walls must be waterproofed to full rose height.
- Allow the SUPERFLEX system to dry completely (at least 3 days, depending on ambient conditions) before tiling is commenced.

TILING OVER SUPERFLEX

Allow the TAL SUPERFLEX system to dry (approximately 72 hours, depending on ambient conditions) before fixing tiles.

ADHESIVE : Use TAL GOLDSTAR 6 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 per 20kg TAL GOLDSTAR 6.

GROUT : Allow the adhesive to set sufficiently, 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 per 20kg TAL WALL & FLOOR GROUT.

Do not use showers for at least 5 days after completion of tiling and grouting to ensure that the installation is fully cured.

COVERAGE

Approximately 2ℓ / m² (for both coats) at a minimum of 2mm dry film thickness when reinforced with TAL SUPERFLEX MEMBRANE. A 15m roll of membrane is sufficient for a 25ℓ bucket of TAL SUPERFLEX.

PACKAGING

TAL FLOOR PRIMER is available in 5ℓ and 25ℓ bottles
TAL FLOORKEY is available in 5ℓ and 25ℓ bottles
TAL SUPERFLEX is available in 5ℓ and 25ℓ buckets
TAL SUPERFLEX MEMBRANE is available in 1m x 3m and 1m x 15m rolls, and 200mm x 50m rolls

STORAGE & SHELF LIFE

When stored in dry internal conditions between 10ºC and 30ºC 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. After use, ensure that the lid is tightly sealed.

WARNING

DO NOT INGEST. USE ONLY AS DIRECTED. PROTECT SENSITIVE SKIN WITH RUBBER GLOVES. 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

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. In special cases, obtain professional advice. 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 inconsequential, 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 reserves the right to change the information on this datasheet. Please contact the TAL Technical Advice Centre on taltech@norcrossa.com or 0860 000 825 to ensure you have the latest version.