

## **DESCRIPTION**

TAL FLOORKEY is a modified latex liquid primer to be used as a slurry priming coat on **smooth, dense and impervious surfaces**, ensuring a good bond onto the substrate. TAL FLOORKEY is compatible with TAL SUPERSCREED, TAL SCREEDMASTER and TAL SUPERSCREED SL underlayments. It is also used as a primer prior to the application of TAL SUPERFLEX and TAL SUREPROOF waterproofing compounds.

TAL FLOORKEY also improves water resistance and increases strength and flexibility when used as an additive for cement.

The use of TAL FLOORKEY confers numerous advantages over untreated (unmodified) mortars and concretes, such as:

- Improved adhesion to substrates, including dense, impervious concrete.
- Mixes may be applied in thinner layers.
- Enhanced resistance to water permeability.
- Improved toughness and flexibility.
- Better resistance to effects of frost.
- Improved resistance to certain chemicals.

## **SUGGESTED USES**

Cement compositions containing TAL FLOORKEY are particularly useful in a number of applications. Some examples are :

- Water resistant renderings for interior or exterior walls or basements.
- Damp resistant layers.
- Levelling floors prior to laying tiles and other floor coverings, etc.
- Patching and repairing concreted areas.
- Industrial flooring, screeding and topping.
- Nosing for stairs indoors / outdoors.
- Flooring for dairies, food factories, fertilizer stores where less porosity and certain chemical resistance is required.
- Lining of effluent ducts.
- Enhanced corrosion protection of steel reinforcing rods in concrete and / or steel structures.
- Keying of surfaces where cement based tile adhesives and mortars are to be applied.

Portland, High Alumina and certain fast setting cements are compatible with TAL FLOORKEY and have been successfully used.

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**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 FLOORKEY : < 10g / ℓ as VOC content material

**SURFACE PREPARATION**

New floor and wall surfaces must be allowed to cure for the minimum periods detailed below to ensure that the following floor or wall covering 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

The substrate must have a moisture content of 5%. All surface beds should have a damp-proof membrane. Should there be no damp proof membrane below a surface bed or if prevailing moisture levels do not attain 5% (75% RH) or less, it is recommended that TAL X-SHIELD VAPORSTOP HB (vapour barrier) be applied to eliminate potential problems associated with excessive moisture in the substrate. 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.

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). 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.

**The surface must be clean and dry and free of all traces of dust, debris, loose particles and surface contaminants before proceeding.**

**APPLICATION**

**As a primer prior to applying TAL underlayments or waterproofing compounds**

Prime smooth or dense surfaces (ie powerfloated concrete, existing tiles) with a slurry consisting of 1 part TAL FLOORKEY mixed with 2 parts TAL RAPIDFIX powder *or* 2 parts TAL KEYMIX powder (by volume), which is applied by block brush. Ensure that the entire surface is fully covered with the priming coat.

- **TAL SUPERSCREED, TAL SUPERFLEX & TAL SUREPROOF**  
Ensure that the TAL FLOORKEY slurry coat has dried completely and is firmly anchored to the substrate before proceeding.
- **TAL SCREEDMASTER, TAL SUPERSCREED SL**  
Ensure that the TAL FLOORKEY slurry coat has dried completely and is firmly anchored to the substrate before applying a coat of TAL FLOOR PRIMER prior to the screeding application. The FLOOR PRIMER application must be allowed to dry for 12 hours before TAL SCREEDMASTER or TAL SUPERSCREED SL can be applied.

**Please contact the TAL TECHNICAL ADVICE CENTRE for correct preparation of other substrates.**

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**As an additive for renders or screeds :**

- **Wall Renderings**

**Preparation**

It is necessary to ensure that the wall surface is free from crumbly or other unsound areas. Dusty patches and old paint and gypsum skimcoats should also be removed. It is usually sufficient to prepare the wall with a wire brush. The surface must be clean and dry and free of all traces of dust, debris, loose particles and surface contaminants before proceeding.

**Priming**

The application of a slurry priming coat is normally recommended to obtain maximum adhesion of the subsequently applied rendering. The priming coat, consisting of 1 part TAL FLOORKEY mixed with 2 parts TAL RAPIDFIX powder (by volume), should be thoroughly brushed onto the prepared wall surface. The rendering should be applied whilst this slurry coat is still tacky, where possible.

**Application**

The thickness of latex-modified renderings should be restricted to not more than approximately 15mm for each coat. Greater thickness tends to cause sagging, or in the case of soffits, actual fall-off of the unset rendering. However, several coats may be applied in fairly rapid succession. It is sufficient to allow each coat time to set-off adequately to receive the subsequent coating. The time required between coats will vary according to conditions, but is typically 20 - 30 minutes.

A single trowelling operation is usually sufficient to achieve a moderately smooth finish. If a smoother finish is required, the rendering should be floated using a clean steel, or preferably wooden, float after a suitable interval has elapsed. This interval is usually about ½ - 1 hour, but is best found by experience.

- **Water-Resistant Rendering / Screeds**

Where the main requirement of the rendering is improved water resistance, a modified application technique is recommended.

After preparing the substrate as described above, two sealing coats consisting of 1 part TAL FLOORKEY mixed with 2 parts TAL RAPIDFIX powder (by volume), should be thoroughly brushed onto the surface. The second coat may be applied as soon as the first coat is touch dry, ie after approximately 20 - 30 minutes. Ideally, the sealing coats should be applied at right angles across each other, thus ensuring complete coverage of the substrate. It is emphasised that the thickness of each sealing coat should not exceed 1.6mm, otherwise crazing may occur.

Before proceeding further, the double sealing coat system must dry out completely for a period of at least 48 hours.

After the sealing coats have dried thoroughly, a slurry priming / tack coat consisting of 1 part TAL FLOORKEY mixed with 2 parts TAL RAPIDFIX powder (by volume), should be applied. The rendering should be applied whilst this slurry coat is still tacky, where possible.

The amount of TAL FLOORKEY required in the rendering composition depends upon the degree of water resistance required and the conditions prevailing during application, but the addition of 20ℓ of TAL FLOORKEY per 100kg of cement (10ℓ per 50kg) is usually satisfactory. Where increased strength is required, the quantity of TAL FLOORKEY should be increased.

Because the application of water-resistant renderings is a specialised procedure, we advise each customer to consult us for recommendations appropriate to his individual requirements.

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- **Heavy Duty Flooring**

TAL FLOORKEY may be used with advantage in heavy duty flooring applications. The procedures for preparing and priming the existing floor, and for mixing and application are as described for general purpose floor screeds.

**CLEANING**

Spillages should be cleaned with a damp sponge before it dries. Clean tools with water before the product dries. Dried product can be removed using TAL EPOXY CLEANING FLUID/GEL.

**COVERAGE (as a primer)**

Coverage varies depending on the surface porosity, but is usually 4m<sup>2</sup> / ℓ.

**PACKAGING**

TAL FLOORKEY is available in 5ℓ and 25ℓ bottles, and 200ℓ returnable drums.

**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. **Ensure lid is tightly sealed.**

**WARNING**

**DO NOT INGEST. USE ONLY AS DIRECTED. WEAR PROTECTIVE GLOVES AND GOGGLES. USE A SUITABLE DUST MASK WHEN USING CEMENTITIOUS COMPOUNDS. 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](mailto:taltech@norcrossa.com)

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

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