

TECHNICAL DATA SHEET

**KEYCOAT™
LATEX ADHESION
PRIMER**

IMPROVES
FLEXIBILITY

USE WITH
TAL KEYMIX

Improves tile adhesive bond onto smooth,
dense surfaces



DESCRIPTION:

TAL Keycoat is a styrene/butadiene copolymer latex primer that has been specially designed to improve adhesion to dense, impervious and smooth surfaces such as Powerfloated/Steefloated Concrete and Screeds, Off-Shutter Concrete, Existing Ceramic and Porcelain Tiles, Glass, etc.

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

FEATURES

- Improves tile adhesive bond
- Improves water resistance
- Low VOC

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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	
Ceramic Tile Adhesive: Maximum Limit 250 Grams Per Litre as VOC Content Material	TAL KEYCOAT: <1g / ℓ as VOC content material

TECHNICAL DATA:

Type	Latex admixture
Colour	Milky White
Application Temperature Range (Ambient)	10°C - 30°C
Density	1.01
Packaging	1ℓ, 5ℓ, 20ℓ and 200ℓ

SURFACE PREPARATION:

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

All substrates should attain a moisture content of 5% (75% RH) or less before tiling is commenced. Should there be no damp proof membrane below a surface bed or if prevailing moisture levels do not attain 5% or less, it is recommended that **TAL VaporStop HB** (vapour barrier) be applied prior to tiling to eliminate potential problems associated with excessive moisture in the substrate (such as slow- or non-curing of the adhesive, efflorescence on grout and porous tiles, etc).

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.

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Off-shutter Concrete, Smooth & Dense Surfaces, Powerfloated & Steelfloated Surfaces	Clean thoroughly or mechanically abrade to remove shutter release and curing agents, laitance, polishes, etc.
Existing Tiles	Must be in good condition and firmly attached to the substrate, ie not cracked, loose or hollow sounding. Acid wash and neutralize to remove dirt, grease, grime, sealants, polish, etc.
Existing Vinyl Flooring / Carpets	Floor coverings must be lifted, and the floor mechanically abraded (chipping, grinding, scabbling, etc) to remove existing fixative.
Bitumen Fixative Residues	Remove vinyl floor covering residues, and all loose or unbonded bitumen fixative residues. Substrate must be firm and sound and clean and dry. Prime with TAL Bitumen Primer .
Existing Paint Existing Gypsum Skimcoats	The paint/gypsum skimcoat must be in good condition and firmly bonded to the substrate, ie not loose, flaking or peeling, and all traces of grease, grime, soap residues and other contaminants must be removed. Domestic/Interior: Mechanically abrade (chipping, grinding, scabbling, etc) to remove at least 80% of the paint/gypsum skimcoat. Commercial/Exterior: Mechanically abrade to remove all traces of paint/gypsum skimcoat.
Bitumen Waterproofing	Mechanically abrade (chipping, grinding, scabbling, etc) to remove completely.

MIXING:

The designed mix ratio is 1 part of **TAL Keycoat** to 2 parts of **TAL Keymix** powder or 2 parts **TAL Goldstar 6** or **TAL Goldstar 12** adhesive powder, by volume (ie 10 litres of **TAL Keycoat** to 20kg **TAL Keymix** / 7 litres of **TAL Keycoat** to 20kg **TAL Goldstar 6** or **12**).

Measure the desired quantity of **TAL Keycoat** into a clean bucket.

Using a suitable mechanical mixer, add the **TAL Keymix** or **TAL Goldstar 6** or **12** powder to the **TAL Keycoat** whilst mixing. Mix well until a smooth, lump-free viscous liquid is obtained. Let the mix stand for 3 - 5 minutes before stirring again. Use within 60 minutes.

Note :

- Never add more liquid to a mix which has been left standing for too long, as this will compromise the integrity of the product.
- Warm weather conditions (generally, temperatures above 30°C) may shorten the working time of the mixture.

APPLICATION:

Ensure the surface is clean and dry and free from all traces of dust, loose particles and surface contaminants which could impair adhesion.

Smooth & Dense Substrates (eg Powerfloated/Steelfloated Concrete and Screeds, Off-Shutter Concrete, Existing Ceramic and Porcelain Tiles, Glass, etc) - Apply the **TAL Keycoat** Slurry using a builder's block brush, ensuring that the entire surface is fully covered with the priming coat. Allow the **TAL Keycoat** Slurry coat to dry for 4 - 6 hours (touch dry, with no visible transfer when rubbed) before applying the tile adhesive.

Very Porous Substrates (eg Fibre-cement Boards, Gypsum Plasterboards, Woodfloated Surfaces, Clay or Cement Brickwork, etc) - Boards or sheets should be sealed in accordance with the manufacturer's instructions. Highly porous/absorbent renders, screeds and brickwork should be primed with a neat coat of **TAL Floor Primer**. This should be followed by a **TAL Keycoat** Slurry coat when using cementitious tile adhesives.

Previous Coatings and Fixatives (eg Painted / Gypsum Skimcoated Substrates, Acrylic and Bitumen Fixatives, Cementitious Adhesives, etc - after being prepared as per Surface Preparation table above) - Apply a **TAL Keycoat** Slurry coat as for Smooth & Dense Substrates above.

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CLEANING:

Wipe the area with a DAMP (**not wet**) sponge before the product dries.
Clean hands and tools with warm, soapy water before the product dries.
Dry product should be removed using **TAL Epoxy Cleaning Fluid** or **Epoxy Cleaning Gel**.

COVERAGE:

Coverage varies depending on the surface profile, but is usually approximately 4m² / ℓ.
10L **TAL Keycoat** mixed with 20kg **TAL Keymix** will cover ± 35 – 40m².
(These coverages are intended as a guide for ordering purposes only. Actual coverages will be determined by site conditions, workmanship, etc.)

PACKAGING:

TAL Keycoat is available in 1ℓ, 5ℓ and 20ℓ bottles, and 200ℓ returnable drums.

STORAGE & SHELF LIFE:

Ensure lid is tightly sealed and packaging is secure and upright.
Secure product when transporting to prevent accidental spillage.
When stored in 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 6 months from date of manufacture.
Never store directly on a concrete floor.

WARNING:

Do not ingest. Use only as directed. Keep out of reach of children. Wear protective gloves and goggles. Use a suitable dust mask when working with cementitious products. 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 9001:2015, OSHAS 45001:2018 and Environmental Management System ISO 14001:2018. 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 instructions on the product data sheet, and where the prescribed standard of 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 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, damage to the tile installation by following trades or abusive trafficking, or any products which have been adulterated, contaminated or misused in any way. Debonding due to cohesive failure within the substrate is not classified as product failure. 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.

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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

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