

TECHNICAL DATA SHEET
HYBRIDFIX[®]

HIGHLY
MOISTURE RESISTANT

2 PART

Two-component rigid Polyurethane / Epoxy-Based, Hybrid Adhesive, with Enhanced Substrate Moisture Tolerance.



DESCRIPTION

TAL Hybridfix is a two component permanently rigid polyurethane / epoxy-based hybrid adhesive. **TAL Hybridfix** exhibits excellent properties for adhesion between most substrates and materials, including materials with dissimilar coefficients of expansion. **TAL Hybridfix** is fast setting and is resistant to shock, water, vibration and mild temperature changes, when cured.

TAL Hybridfix was designed to tolerate higher moisture levels in the substrate and to suppress substrate moisture once cured and can thus be applied to substrates with a tested moisture content of between 6 - 8% (80 – 85% RH) when using a suitable electronic moisture meter.

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

FEATURES

- Highly suitable for substrates with elevated moisture.
- Fast setting - Initial set time of 12 hours, full set 24 hours.
- Resistant to moisture, shock, water, vibration and mild temperature changes, when cured.
- Offers chemical resistance.

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Issue Date: 4 JUNE 2024



AREAS OF APPLICATION:

TAL Hybridfix was specially formulated as a fixative for specialized, resilient PVC composite flooring.

TAL Hybridfix shows excellent adhesion without primer to steel, PVC, zinc, fibre cement, aluminium, marble, clay, concrete, brick, wood, most lacquered metals, polyester, glass, stone, ceramic tiles, etc.

TAL Hybridfix was designed to tolerate higher moisture levels in the substrate and to suppress substrate moisture once cured and can thus be applied to substrates with a tested moisture content of between 6 - 8% (80 – 85% RH) when using a suitable electronic moisture meter.

Suitable moisture testing equipment, and readings, are as follows:

WAGNER RH%	CAISSON VI-D4	ROMUS	TRAMEX	PROTIMETER
80 – 85%	6 – 8%	6 – 8%	6 – 8%	24 - 27

CLASSIFICATION ACCORDING TO EN 14259:

TAL Hybridfix exceeds the minimum requirements of EN 14259, for Peel and Shear resistance.

LABORATORY TEST DATA:

Type	Two component permanently rigid polyurethane / epoxy-based hybrid adhesive
Appearance	Pasty
Colour	Pale Yellow
Density (@ 20°C)	1.38± 0.02
Peel (EN 22631 / EN 1372) ISO 22631	>2.0 N/mm
Application Temperature Range (Ambient)	+10° - +35°C
Pot Life*	Ca 60 Minutes
Open Time*	30 Minutes
Setting/Curing Times*	12 Hours - Initial Set (Light trafficking) 24 Hours – Full Set (Full Service) 7 Days – Full Cure (Chemical and acid resistance) Protect from exposure to cleaning agents/chemicals until fully cured.
Shear Resistance (EN 22632/EN1373)	0.9 N/mm ²
Temperature Resistance	-15°C - +60°C
Resistance to Dilute Acids & Bases	Good

*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.

INSTALLATION / HEALTH & SAFETY:

This product is for use only by competent and experienced artisans with the correct training and equipment. Application by unskilled labour is not recommended.

NB: Refer to the Method Statement (MS) prior to the use of this product.

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 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 reserves the right to change the information on this datasheet. Please contact the TAL Technical Advice Centre on taltech@tal.co.za or 0860 000 825 to ensure you have the latest version.

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PACKAGING:

Available in 5L, 2-Component Kits (Base and Hardener).

APPROXIMATE COVERAGE:

Smooth Surfaces - Applied using a 1.6mm V-notch Trowel: $\pm 0.63\text{kg/m}^2$ (10.9m² per 5L kit)

Rough Surfaces - Applied using a 3mm V-notch Trowel: $\pm 0.98\text{kg/m}^2$ (7.0m² per 5L kit)

NB: This coverage is intended as a guide for ordering purposes only. Actual coverages will be determined by substrate porosity, surface profile, workmanship, wastage, etc. Allow additional product (20 – 30%) for highly porous or textured surfaces.

STORAGE & SHELF LIFE:

Ensure containers are tightly sealed when not in use, and packaging is secure and upright.

Secure packaging when transporting to prevent accidental spillage.

When stored in the original sealed packaging in dry internal conditions between 10°C and 25°C the product has a shelf life of 6 months from date of manufacture.

NB: Never store directly on a concrete floor.

WARNING:

Keep out of reach of children and pets. Use only as directed. Do not ingest or inhale. Wear protective goggles, mask and gloves. Work in a well-ventilated area. Dispose of this product in accordance with Local Regulations. Contact TAL for further Health & Safety information (MSDS/SDS).

AUTHORIZED TECHNICAL SPECIALIST:

Only TAL Authorized Technical Specialists are permitted to change any of the information in this data sheet or to provide written recommendations concerning the use of this product.

TAL TECHNICAL ADVICE CENTRE:

For advice or 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

NB: Ensure you have the latest version of this data sheet.

PRODUCT PERFORMANCE 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, OHSAS 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 method statement, 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.

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