

# K2 ULTRABOND PU

High Performance Two-Component Polyurethane Adhesive



## Description:

K2 ULTRABOND PU is Multipurpose, two-component polyurethane thin-set adhesive for interior and exterior tile and stone installation, compatible with a wide range of drywall substrates, including metal surfaces.

## Area of Application:

K2 ULTRABOND PU can be used for indoor and outdoor all types on:

- Engineered for interior and exterior floor and wall installations.
- Suitable for all types of ceramic, vitreous, and semi-vitreous tiles.
- Compatible with glass mosaic tiles, precast terrazzo, engineered stone, metal tiles, and natural stone.

- Designed for application over concrete and a wide range of substrates, including metal surfaces and drywall boards.

## Benefits:

- Two-component system – pre-measured, easy to mix and apply.
- High mechanical strength with excellent chemical resistance.
- Strong adhesion to a wide variety of substrates, including metal and wood.
- Water-resistant, freeze–thaw resistant, and thermal shock resistant.
- Flexible and resistant to elevated temperatures.
- Non-slip, suitable for vertical applications.

## Technical Properties:

Properties	Results
Appearance	Part – A (Base) – White Smooth paste free from lumps Part – B (Hardener) – Pale yellow Liquid
Consistency of mix	White Paste
Pot life	>60 Minutes
Open time	>60 Minutes
Adjustment time	>60 Minutes
Foot Traffic- Normal	24 hrs
Ready to use	7 days
Tensile Adhesion - Dry Condition	≥2.0 N/mm <sup>2</sup>
Slip Resistance	<0.5mm
Shear Adhesion – Dry Condition	≥6.0 N/mm <sup>2</sup>
Shear Adhesion – Heat Aging	≥3.0 N/mm <sup>2</sup>

## Classification in compliance with ISO 13007 -1& conforming to IS 15477:2019

- K2 ULTRABOND PU is **R2 (Improved Reaction Resin Adhesive) with slip resistant (T) classified as R2T as per ISO 13007-1.**
- It is conforming to **Type-5, Slip-resistant (T), and Highly Deformable (S2) classification as per IS 15477:2019.**

## Application Instruction:

### SURFACE PREPARATION

- Substrates must be compact and consistent, free from dust, rust, oil and grease, free from any moisture rising, with no loose and flaky debris or imperfectly anchored parts.
- The substrate must be stable, non-deformable, without cracks and have already completed the curing period of a hygrometric shrinkage.
- Uneven areas must be corrected with suitable smoothing and finishing products.
- Rust on iron surfaces must be removed by sandblasting.
- It is recommended to reinforce gypsum, gypsum board and unhydrate substrates with a coat of K2 JAPOXY PRIMER.

### MIXING PROCESS

Pour the part B (hardener) into part A (Base) and mix well until a uniform paste is obtained. It is advisable to use a low speed electric stirrer to ensure perfect mixing and avoid overheating the mix, which would reduce the working time. Use the mix within 60 minutes of mixing.

### APPLICATION PROCESS

- Apply to the substrate a uniform layer of K2 ULTRABOND PU with a notched trowel.
- For exterior installations, the tile backs must be completely covered with the adhesive.
- Spread K2 ULTRABOND PU on the substrate with a flat trowel to a thickness of at least 3 mm; then rework the surface with a notched trowel so as to line it all over, but without

reducing the thickness to less than 1 mm. This thickness must be maintained even after the tiles have been installed.

### Precautions:

- Do not use on very damp surfaces or where there is a risk of rising damp.
- The packs are pre-measured, therefore mixing errors are impossible. Do not use partial quantities. A wrong mixing ratio could cause damage during the curing process.
- Use the products in temperatures between +15°C to +40°C.
- In case of use on surfaces subject to continuous immersion in water, consult the K2 Technical Services Department beforehand.

### Coverage:

K2 ULTRABOND PU has a coverage of 8-9 Sq.ft. /4 Kg pack/ @ 3 mm thickness.

### Packing:

- K2 ULTRABOND PU is available in below pack.
- 4 Kg Pack Contains Base (PART A) 3.200Kg & Hardener (PART B) 800gm.

### Shelf Life and Storage:

K2 ULTRABOND PU has a shelf life of 12 months in unopened packs, if kept in a dry store. And protect from direct sunlight. Part B (hardener) must be stored in a warm place to avoid crystallization during cold weather (at least at +10°C). Should crystallization occur, re-dissolve by warming before use. Stir the product before use.

## Technical Support:

The company provides a technical service supported by the team of specialist applicators in the industry.

## Important Note:

KONKEM Industries Private Ltd products are guaranteed against defective materials and manufacture and are sold subject to its standard terms and conditions of sale, copies of which may be obtained on request. Whilst KONKEM Industries Private Ltd endeavors to ensure that any advice, recommendation specification or information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products whether or not in accordance with any advice, specification, recommendation or information given by it or its applicators.

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