

# KingBond<sup>®</sup> PU100

**General purpose polyurethane adhesive sealant.**

## DESCRIPTION

KingBond PU100 is a one-component general purpose polyurethane adhesive sealant specially designed to form a flexible and permanent bonding agent for a wide range of substrates and construction materials.

## APPLICATIONS

KingBond PU100 is suitable for adhering and fixing several types of materials on common substrates including concrete, masonry, stone, aluminium, galvanized steel, ceramic, porcelain, wood, mirrors, painted metals and steel.

Examples of applications include but are not limited to:

- ☐ Cover plates, gaskets and coverings.
- ☐ Paver caps, masonry veneer and faux stone.
- ☐ Roof tiles.
- ☐ Fixing pedestals in raised access floors.
- ☐ Various truck, bus and trailer assemblies.
- ☐ Wood or metal window and door frames.

## ADVANTAGES

- ☐ High adhesion strength with all common construction materials.
- ☐ Fast curing rate.
- ☐ Highly durable.
- ☐ Excellent weathering resistance.
- ☐ Wide service temperature range.
- ☐ Non-corrosive.
- ☐ Water-resistant.

## METHOD OF USE

### Surface Preparation

All substrates should be clean, dry, free from dust, oil, grease and any contaminations that could affect the adhesion.

If the substrates need clean, use methyl ethyl ketone (MEK), acetone or grease remover. Always be sure that the substrates are dry before the application.

## APPLICATION

The recommended application temperature range is 5°C to 50°C. For cold weather application, store the product in a heated area at 20°C for 24 hours before use.

Extrude the adhesive firmly on the bonding surface in a bead or as spot welding.

## TECHNICAL PROPERTIES @ 23°C, 50% RH:

Density:	1.16 ± 0.05 g/cm <sup>3</sup>
Hardness Shore A: ASTM C661	30 ± 5 @ 7 days
Curing rate:	≈ 2.5 - 3.5 mm/day
Elongation: ASTM D412	> 700% @ 7 days
Tensile strength: ASTM D412	> 1.8 MPa @ 7 days
Service temperature:	-30 up to 100°C
Application temperature:	5 up to 50°C
Effects of accelerated weathering: ASTM C793	No cracking
Effect of heat aging: ASTM C1246	Pass @ 70°C
VOC: ASTM D2369	≤ 65 g/ltr (comply with LEED)

## CLEANING

Clean tools and equipment first with paper towels and then wipe with Acetone, xylene or other suitable solvents.

## PACKAGING

KingBond PU100 is available 600 ml sausages or 280 ml cartridges.

## STORAGE

Shelf life is 1 year when stored under cover, out of direct sunlight and protected from extremes of temperature.

Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advice consult KingKrete's Technical Services Department.

## HEALTH AND SAFETY

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs. Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Reseal containers after use. Use in well ventilated areas and avoid inhalation.



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## NOTE

Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local KingKrete representative.

KingKrete Inc. reserves the right to have the true cause of any difficulty determined by accepted test methods.

## QUALITY AND CARE

All products originating from KingKrete's manufacturing facilities are manufactured under a management system independently certified to conform to the requirements of the quality standard ISO 9001.

\* Properties listed are based on laboratory-controlled tests.

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## R3-2601

### STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this KingKrete Inc. publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness, either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

### NOTE

Field service where provided does not constitute supervisory responsibility. Suggestions made by KingKrete Inc. either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not KingKrete Inc. are responsible for carrying out procedures appropriate to a specific application.

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