

# UltraSEAL Flex25

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UltraSeal Flex25 is a one-component, silane-modified polymer-based sealant designed to act as a bond breaker for Kerakoll and Keratrade membranes. It cures by reacting with moisture, transforming into a soft, elastic material. The skin formation and curing time are influenced by temperature, humidity, and joint depth. Higher temperatures and moisture levels accelerate curing, while lower temperatures and humidity slow the process.

Free from solvents, isocyanates, silicones, and PVC, UltraSeal Flex25 offers excellent adhesion to a wide variety of substrates and is compatible with most paint systems. It provides strong UV resistance, making it suitable for both interior and exterior applications.

## AREAS OF USE

- **Bond Breaker:** For Kerakoll and Keratrade membranes.
- **Sealing and Bonding:** Ideal for internal and external building applications, including plinths, profiles, insulating, and decorative panels.
- **Adhesion to Various Substrates:** Excellent adhesion to metals such as aluminium, galvanized steel, copper, and stainless steel, as well as common building materials like cement, wood, brick, glass, PVC, in-situ concrete, render, precast and tilt-up panels, plasterboard (both face and paper-lined recessed edges), fiber cement sheets, GRC, fiberglass, specialty panel systems, and painted wood.
- **Flexible Bonding Applications:** Suitable for vibration-exposed joints such as fractionising joints on concrete floors and balconies.
- **Additional Industrial Uses:** Ideal for seam joints and sealing in industries including vehicle body manufacturing, railway carriages, containers, shipbuilding, metal construction, electrical, plastics, air conditioning, and ventilation industries.
- **Vehicle Window Glazing:** Provides excellent adhesion for vehicle window glazing between rubber profiles and glass, including adhesion to most rubber types, such as EPDM-based materials.
- **Bus Manufacturing:** Suitable for bonding floor coverings.

## PRODUCT STRENGTHS

- Free of isocyanates, solvents, and silicones
- Low modulus ( $\pm 25\%$  joint movement)
- 600% elongation
- Suitable for joints up to 50mm wide
- Moisture-curing, almost odorless
- No bubbling during curing
- Resistance to UV, water, and weather
- Permanently elastic



## PREPARATION OF SUBSTRATES

- Ensure the joint sides are dry, clean, and free from grease, dust, or rust. Remove any loose or flaky materials.
- For visible joints, apply protective masking tape along the edges for a neat sealing line.
- Insert a pre-formed polyethylene foam sub-joint layer to prevent the sealant from adhering to the bottom of the joint.
- Depending on the surface, roughening or applying a primer/adhesion promoter may be necessary for optimal adhesion.
- If working with plastics, remove any external release agents used during manufacturing. Due to varying paint compositions (e.g., powder coatings) and substrates, trial applications are recommended.

## APPLICATION INSTRUCTIONS

1. Ensure the primer coat is dry before applying the sealant (if applicable).
  2. Snip the end of the tube, attach the nozzle, and load it into a manual or air-powered sealant applicator gun.
  3. Extrude UltraSeal Flex25 to fill the joint. If the sealing process is internal, no adhesive or protective paper tape is needed.
  4. When applied between panels, use protective masking.
  5. Tool off and compress the sealant to ensure optimum adhesion and avoid air bubbles.
  6. For long-lasting performance under expansion and contraction stress, ensure the joint is designed to accommodate up to 10% movement of the joint width, with a maximum joint width of 50mm.
- UltraSeal Flex25 is a versatile and high-performance sealant suitable for a variety of industrial, construction, and commercial applications, offering durability, flexibility, and environmental benefits.

## Colour - Grey

## COVERAGE:

One sausage will cover  $\approx 5.4$  linear metres for joints with a width and depth of 1 cm.

## TECHNICAL DATA

Technical Data Density, g/cm <sup>3</sup>	Approx 1.5
Sag Resistance	No Sagging (DIN Profile 15mm)
Skin formulation time min	Approx 10 to 40
Cure rate, mm/24hrs:	Approx 4
Shore-A-Hardness(ISO 868, Durometer A )	Approx 30
UV resistance: No signif.	Changes
Stress at 100% elongation (acc. to ISO 37), Mpa:	0.6
Volume change ( acc. to DIN 52451).%	<2
Application temperature °C	5 to 40
In service temperature range e °C	-50 to +80

Item Code: UltrasealFLEX25-600mL

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### GUARANTEE

BuildGreen guarantees that Keratrade Products are free from manufacturing defects and will meet any applicable specifications published by us for a period of 10 years from the date of purchase. Refer to the BuildGreen Guarantee.

### DISCLAIMER

The technical details and recommendations are provided based on the best knowledge at the time. It is the user's responsibility to ensure the correct use and handling of the products in line with applicable Australian Standards. Users should verify that the product is appropriate for their specific applications and meets system specifications. We reserve the right to change information without prior notice as part of ongoing research and development.