SIMSEAL®

SEAL WITH GLOBAL EXCELLENCE

ULTRA FLEX

HIGH ELASTIC ACRYLIC SEALANT

WHITE

Description

Ultra Flex - High Elastic Acrylic Sealant a premium and highly elastic acrylic sealant, suitable for both external and internal sealing applications. It is formulated with enhanced UV resistance property and can withstand up to ±25% movement. It is paintable and formulated for sealing gaps and joints where high movements or vibrations are expected.
Specially formulated to achieve superior performance and feature low VOC emission and content, Ultra Flex is able to comply with the stringent requirements of ASTM C920 as well as contribute to the Leadership in Energy and Environmental Design (LEED) v4.1 credit.

Technical Data

PROPERTY	VALUE	
Base:	Acrylic latex	
Cure System:	Water evaporation	
Skin-Form Time:	15 minutes (at 25 °C & 50% R.H.)	
Specific gravity:	1.57 g/mL	
Solid content:	81%	
Slump test:	No slump	
Stain index:	No stain	
Maximum Tensile strength:	1.0 N/mm²	
Elongation at Break:	400%	ASTM D412
Movement capability:	±25%	ASTM C719
Shore A hardness:	28	ASTM C661
Low VOC compliance:	Yes	SCAQMD Rule 1168
VOC content:	25.90 g/L	USEPA Method 24

Key Performance Properties

- ±25% Movement capability
- Exterior & Interior sealant applications
- Leadership in Energy and Environmental Design (LEED) v4.1 EQ compliant
- Paintable
- Permanently flexible & easy clean up

Applicable Tests / Standards

Ultra Flex meets the requirements of:

- Leadership in Energy and Environmental Design (LEED) v4.1 EQ compliant
- ASTM C920 & ASTM C719, Type S, Grade NS, Class 25, Use NT, M
- Low VOC - USEPA Method 24 and SCAQMD Method 304-91 under SCAQMD Rule 1168

Application

It is ideal for sealing applications where a fast paint over time is required. It also good for general sealing applications (door and window joints, cabinet and wardrobe installation, skirting of wood flooring, etc.). Suitable for various substrates (metal, PVC, wood, concrete, gypsum boards, reinforced cement boards, marble, etc.).

Preparation

- Substrate surface must be dry and clean; free of dirt, grease, oil, or standing water.
- For a neat finishing, use masking tape and remove it within the working time.
- For sealant designs with depth of over 10 mm, use approved backing materials.

Application Direction

1. Surfaces must be clean, dry and free of dirt, grease, oil or water.
2. Surfaces should be cleaned with alcohol, M.E.K. or other suitable solvent. Do not use soap or detergent.
3. For a neat finish, apply masking tape and remove it before sealant skins over.
4. Cut nozzle at 45° angle to desired bead-width and apply to substrate with cartridge gun.
5. Tool the sealant within 15 minutes of extrusion before it skins.
6. Allow to dry for one hour before applying water-based paint and 24 hours for oil-based paint.
7. Uncured sealant can be cleaned up with damp cloth.

Clean Up
- Wet sealants can be cleaned up with acetone or mineral spirits.
- Cured sealants can only be removed mechanically.

Joint Design
- The specified sealant bead size should be calculated to comply with the compression and extension capabilities of the sealant in relation to the anticipated joint width due to expansion and contraction.
- Minimum bead size should not be less than 3 mm to accommodate movement.
- Sealant design joint width-to-depth ratio should be 2:1.

Packaging
450g Cartridge -
Available in cartons of 20
Product packed in Australia

Shelf Life
24 Months

Storage
Store in a dry and cool place with temperature below 30 °C
(Do not store below 5 °C)

APPLICATION TEMPERATURE
5 °C – 50 °C

SERVICE TEMPERATURE
-10 °C – 75 °C

Limitations
Not recommended for following applications:
- Applied outdoors if it is likely to be rained upon within 2 hours of application.
- Use in areas of constant water immersion.

Caution
Contains a mixture of CMIT/MIT. May produce an allergic reaction. Keep out of reach of children. Safety data sheet available. For further health and safety information, consult the latest safety data sheet.

Legal Notes
Simseal® has made every effort to ensure accurate information but cannot be held liable for any losses or damages arising from its use, due to uncontrollable variations in processing and workmanship. Users should verify the product's suitability through their own testing.

Applicator Responsibility & Limitation of Liability
The applicator/installer is solely responsible for testing the suitability of any Simseal® product for the intended substrate, environment and use, including on-site adhesion, stain/bleed tests, and confirming colour/appearance (including batch or shade variations). Use of the product constitutes acceptance of suitability and colour. Except as required by the Australian Consumer Law, Simseal® disclaims liability for losses arising from application/installation methods, site conditions, or use outside Simseal's published instructions. To the maximum extent permitted by law, Simseal's liability is limited to replacement of the goods or the supply of equivalent goods.