

Technical Data Sheet

Chemtools® Pty Ltd | Ph: 1300 738 250 (+61 2 9833 9866) | Unit 2, 14 – 16 Lee Holm Road ST MARYS NSW 2760
Safety Data Sheets, product photos, and other information can be obtained by visiting www.chemtools.com.au



Rapidstick™ RS60 All-In-One Silicone Sealant

| PART NUMBER | COLOUR | AVAILABLE SIZE* |
|--------------|---------------------|-----------------|
| 8-RS60BK-300 | Black | 300ml Cartridge |
| 8-RS60GY-300 | Grey | 300ml Cartridge |
| 8-RS60WT-300 | White | 300ml Cartridge |
| 8-RS60CL-300 | Clear | 300ml Cartridge |
| 8-RS60SV-300 | Silver | 300ml Cartridge |
| 8-RS60SM-300 | Colorbond® Surfmist | 300ml Cartridge |

*Available colours and/or sizes may change without notice.

DESCRIPTION

Rapidstick™ RS60 All-In-One Silicone Sealant is a durable, non-tacky, highly adhesive waterproof sealant with permanent elasticity, specially formulated for expansion joints and lightweight window glazing applications – particularly those exposed to the outside elements. It has low shrinkage and is resistant to UV damage, fading, abrasion, and cracking. With excellent structural binding properties, RS60 is an ideal choice for small to medium-scale curtain wall installations and is suitable for use in harsh environments or under extreme temperature conditions.

Rapidstick™ RS60 can be applied to unprimed or painted surfaces without a reduction in performance, adhering incredibly well to most commercial paints, coatings, and glazes for a lifetime, no replacement bond. Its no-slump single component neutral cure formula slowly absorbs atmospheric moisture to form a permanent elastomeric seal. Once thoroughly cured, RS60 is unbeatably tough, and will not degrade or lose flexibility with time.

- Meets the requirements of **ASTM 6920-18 Standard Specification for Elastomeric Joint Sealants**
- Conforms to **Classification of Sealants for Building Construction: ISO 11600 F Class 25LM (Construction Sealants)** and **ISO 11600 G Class 25LM (Glazing Sealants)**

KEY FEATURES & BENEFITS

Superior Adhesion: Exhibits outstanding adhesion to a wide range of substrates commonly used in window glazing, including glass, aluminium, steel, and most construction materials.

Excellent Flexibility: Maintains flexibility over a wide temperature range, ensuring long-lasting performance and accommodating structural movements.

High Weather Resistance: Offers exceptional resistance to UV radiation, extreme temperatures, and harsh weather conditions, making it suitable for both indoor and outdoor applications.

Water and Moisture Resistance*: Provides a reliable waterproof barrier, preventing water infiltration and protecting against moisture-related damages, such as mould and mildew growth.

Good Chemical Resistance: Resistant to many chemicals, including water-based detergents, mild acids, and alkalis, ensuring durability in various environments.

Low VOC: Low volatile organic compound (VOC) content, ensuring compliance with environmental regulations and contributing to a healthier indoor environment.

Low Modulus: Better movement and elasticity, with longer lasting adhesion in comparison to high modulus sealants or low modulus acetoxy sealants.

*Note: In water-loaded applications, porous surfaces should be primed first

PRODUCT FEATURES

- | | |
|---|--|
| <input checked="" type="checkbox"/> Low odour | <input checked="" type="checkbox"/> Resistant to UV weathering |
| <input checked="" type="checkbox"/> Single component, no mix formulation | <input checked="" type="checkbox"/> Excellent anti-fungal properties |
| <input checked="" type="checkbox"/> Resistant to mould and mildew | <input checked="" type="checkbox"/> Excellent for both indoor & outdoor applications |
| <input checked="" type="checkbox"/> Non-corrosive | <input checked="" type="checkbox"/> Non-primed adhesion to most surfaces |
| <input checked="" type="checkbox"/> Maximum flexibility | <input checked="" type="checkbox"/> Anti-sagging formula |
| <input checked="" type="checkbox"/> Will not crack, fade, peel, or abrade | <input checked="" type="checkbox"/> Low shrinkage after cure |

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COMPATIBLE SURFACES

- | | |
|--|---|
| <input checked="" type="checkbox"/> All metal types, incl. ferrous, non-ferrous, soft & coated | <input checked="" type="checkbox"/> Most plastics |
| <input checked="" type="checkbox"/> Timber & wood | <input checked="" type="checkbox"/> Concrete & bricks |
| <input checked="" type="checkbox"/> Glass & laminates | <input checked="" type="checkbox"/> Drywall & plaster |
| <input checked="" type="checkbox"/> Ceramics, porcelain & stone | <input checked="" type="checkbox"/> Granite & marble |

INCOMPATIBILITIES

- May cause corrosion to surfaces made from brass
- Yellowing may occur in contact with some organic rubbers, such as EPDM
- Not compatible with substrates made from PE, PP, PTFE (Teflon®), and bitumen
- Not recommended for use on mirrors

APPLICATIONS

COMMON APPLICATIONS

- ☒ Weatherproofing joints around windows and doors
- ☒ Mounting panels, skirting boards, thresholds, and insulation materials
- ☒ Bonding glass in synthetic and aluminium profiles
- ☒ Fin glazing and general glazing applications
- ☒ Sealing/bonding coated metal, porcelain, polyester, stainless steel, anodised aluminium, and finished wood

SUGGESTED APPLICATIONS

- ☒ Kitchen and bathroom sinks, basins, bathtubs, showers, benchtops, splashbacks, and tiled wet areas
- ☒ Plumbing fixtures, including pipes, faucets, and other plumbing penetrations
- ☒ Weather-prone areas, such as window and door frames, roofs, gutters, and downspouts
- ☒ Panelling, skirting boards, thresholds, and insulation materials
- ☒ Electrical boxes, to protect from moisture and corrosion
- ☒ Marine hardware and fixtures prone to harsh weather
- ☒ Automotive body panels and components
- ☒ HVAC system ductwork, vents, and other components
- ☒ Joints and gaps in outdoor furniture
- ☒ Pool fixtures and skimmers
- ☒ Adhering plastic and metal signs
- ☒ General maintenance applications to keep surfaces sealed and protected

DIRECTIONS

Surfaces must be clean and free from loose material, standing water, or contaminants which otherwise may impair the bond*. Non-porous surfaces such as aluminium should be cleaned/degreased before application. It may be necessary to prime some porous surfaces depending on cohesiveness and porosity of the substrate.

For applications such as construction joints where some movement will be exhibited, the minimum joint dimensions should be 6mm x 6mm with the maximum dimensions being 20mm (W) x 12mm (D). Where deeper joints are found, depth can be reduced using a suitable backer rod.

For areas of perimeter pointing where a fillet is to be applied, the minimum measurement across must be 10mm with a minimum depth of 6mm.

Sealing: Apply firmly into the joint using an application gun, ensuring a good solid fill is achieved.

Bonding: Apply in vertical lines approximately 30cm apart. Support for 24 hours until full cure occurs.

**This product is not recommended for structural glazing, toughened glass, or direct application on substrates that seep oil.*

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TECHNICAL DATA

| | |
|---|---|
| Cure System | Neutral (atmospheric moisture curing) |
| Material | 100% Silicone polymer |
| Appearance | Smooth, non-grainy, no agglomeration |
| Flexibility | Permanently flexible |
| Coverage | 300ml cartridge will seal approx. 10 meters with a 6mm bead |
| Recommended Storage Temperatures | 10 to 25°C (do not exceed 45°C) |
| Post-Application Life Expectancy | When used and applied correctly, in excess of 20 years |
| Recommended Application Temperature Range | +5 to +40°C |
| Service Temperature Range | -50 to +150°C |
| UV Resistant | Yes, resists degradation |
| Weather Resistance | 100% weatherproof |
| Mould & Mildew Resistant | Yes |
| VOC Content | Low (~50g/L) |

UNCURED SEALANT

| Performance | Testing Standards | Unit | Data |
|---|-------------------|-------------------|-------------|
| Density | GB/T 13477.2 | g/cm ³ | 1.10 |
| Degree of Sagging | ISO 7390:2002 | | Non-sagging |
| Surface Dry Time | GB/T 32369 | minutes | 10 |
| Curing Rate @ 23°C, 50% Relative Humidity | GB/T 32369 | mm/24h | Approx. 2mm |
| Skinning Time @ 23°C, 50% Relative Humidity | ASTM D2377 | Minutes | 7 – 10 |

CURED SEALANT*

| Performance | Testing Standards | Unit | Test Results |
|------------------------------|-------------------|-------------------|--------------|
| Tensile Strength | ISO 37 | N/mm ² | 1.30 |
| Elastic Recovery Rate | ISO 7398 | % | >80 |
| Elongation at Break | ISO 37 | % | 800% |
| Anti-displacement Capability | ISO 11600 | % | 25% |
| Hardness | ISO 7619 | Shore A | 22 ± 5 |

*Testing Conditions: Temperature: 23°C, Relative Humidity: 50%, Test Period: 28 Days

SHELF LIFE (UNOPENED)

15 months minimum from date of manufacture when stored continuously under recommended storage temperatures.

Note: This product may not perform to given specifications once shelf life has been exceeded

FIRST AID & SAFETY PRECAUTIONS

Always refer to Safety Data Sheet/s before use. Use proper Personal Protection Equipment. Do not get in eyes, on skin, or on clothing. Use with adequate ventilation. Avoid breathing fumes. Keep away from heat, sparks, open flames, and hot surfaces. This product may produce adverse health conditions, ranging from minor skin irritation to serious systemic effects. It should not be used, stored, or transported until the handling precautions and recommendations as stated in the Safety Data Sheet/s for this product have been fully understood by all persons who will work with the material.

STORAGE & TRANSPORT

Refer to Safety Data Sheet/s for recommendations. As a general precaution, keep containers tightly closed, protect from sunlight, and do not expose to temperatures exceeding 45°C. Containers should be secured and stored upright during transit.

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DISCLAIMER

Every effort has been made to ensure the information provided in this document is accurate at the date of publication. Chemtools® Pty Ltd expressly recommends that the user make his/her own assessment to determine the suitability of the product for its intended purpose prior to application. Chemtools® Pty Ltd shall not be responsible for loss, damage, or injury, resulting from the reliance upon, or failure to adhere to, any recommendations or information contained herein; nor from abnormal use of the material; nor from any hazard inherent in the nature of the material.