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

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

COMPATIBLE SURFACES

☑ All metal types, incl. ferrous, non-ferrous, soft & coated
☑ Timber & wood
☑ Glass & laminates
☑ Ceramics, porcelain & stone
☑ Most plastics
☑ Concrete & bricks
☑ Drywall & plaster
☑ 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.*

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.

DISCLAIMER

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