



Technical Data Sheet

DOWSIL™ Pairseal Silicone Insulating Glass Sealant

FEATURES & BENEFITS

- Ease of application. Ready to use as supplied; one-part, moisture cure, no need for mixing.
- Durability; the cured sealant can maintain its elasticity in temperatures of -50°C to 150°C without hardening, cracking or degrading.
- Reasonable operation time; allows operators greater control of application and tooling time.
- Excellent adhesion to insulating glass components including glass and aluminum spacer.

COMPOSITION

- One-part, neutral cure, RTV silicone sealant.

Insulating Glass Sealant

APPLICATIONS

- DOWSIL™ Pairseal Silicone Insulating Glass Sealant is intended for use as a secondary edge seal in an insulating glass unit that will be non-structurally glazed.
- Insulated glazing for residential glazing.

TYPICAL PROPERTIES

Specification Writers: These values are not intended for use in preparing specifications.

Test ¹	Property	Unit	Value
Uncured – As tested at 25°C and 50% RH			
	Color		Black
ASTM C 639	Flow (sag or slump)	mm	0.2
	Specific Gravity		1.42
	Working Time	minutes	< 60
ASTM C 679	Tack Free Time	minutes	< 90
As cured – After 7 days at 25°C and 50% RH			
ASTM C 661	Durometer Hardness, Shore A	points	32
ASTM D 412	Ultimate Tensile Strength	Mpa	2.0
ASTM D 412	Elongation at Break	%	660

¹ASTM – American Society for Testing and Materials

DESCRIPTION

DOWSIL Pairseal Silicone Insulating Glass Sealant is a one-part, neutral cure sealant which is designed to provide a secondary seal in a dual sealed insulating glazing unit for residential glazing. When cured it has a high modulus for good mechanical assembly of insulating glazing units.

HOW TO USE

DOWSIL Pairseal Sealant is intended for use as a secondary sealant in a dual-sealed insulating glass unit. A primary seal, typically

polyisobutylene, is required to prevent moisture vapor from transmitting into the airspace of the insulation glass unit. The product can bond the individual components, forming a weather-resistant unit. The sealant is compatible with DOWSIL™ neutral curing construction sealants, such as DOWSIL™ 977 Silicone High Performance Sealant and DOWSIL™ 789 Silicone Weather Proofing Sealant, as well as most commonly used glazing components.

Surface Preparation:

Before using this product, clean all surfaces, removing all foreign matter and contaminants, such as grease, oil, dust, water, frost, surface dirt, old sealants or glazing components and protective coatings. Clean all metal, glass and plastic surfaces by mechanical or solvent procedures. Always wipe solvents on and off with clean, oil- and lint-free cloths.

Tooling:

To obtain optimum adhesion, joints should be tooled immediately after sealant application to ensure complete substrate contact.

COLORS

This product is available in black color.

HANDLING

PRECAUTIONS

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ PRODUCT AND SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION. THE SAFETY DATA SHEET IS AVAILABLE ON THE DOW WEBSITE AT WWW.CONSUMER.DOW.COM, OR FROM YOUR DOW SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CUSTOMER SERVICE.

USABLE LIFE AND STORAGE

When stored at or below 30°C (86°F) in the original unopened containers, DOWSIL Pairseal Sealant has a usable life of 9 months from the date of manufacture. Refer to product packaging for "Use By" date.

PACKAGING INFORMATION

DOWSIL Pairseal Sealant is available in 270 kg drum package.

LIMITATIONS

DOWSIL Pairseal Sealant is not approved for use as a structural glazing purpose.

DOWSIL Pairseal Sealant should not be used:

- When surface temperatures exceed 50°C (122°F)
- As a primary or single seal in an insulating glass unit
- In insulating glass units intended for use in structural silicone glazing applications
- On zinc-galvanized spacer substrates
- On building materials that bleed oils, plasticizers or solvents- materials such as impregnated wood, oil-based caulks, green or partially vulcanized rubber gaskets and tapes
- In totally confined spaces (the sealant requires atmospheric moisture and must release by-product to cure)
- On frost-laden or wet surfaces
- For continuous immersion in water
- To surfaces in direct contact with food or other food-grade applications
- On coated surface such as Low E

This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

HEALTH AND ENVIRONMENTAL INFORMATION

To support customers in their product safety needs, Dow has an extensive Product Stewardship organization and a team of product safety and

regulatory compliance specialists available in each area.

For further information, please see our website, www.consumer.dow.com or consult your local Dow representative.

LIMITED WARRANTY INFORMATION – PLEASE READ CAREFULLY

The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer's tests to ensure that our products are safe, effective, and fully satisfactory for the intended end use. Suggestions of use shall not be taken as inducements to infringe any patent.

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