



Technical Data Sheet

DOWSIL™ 2400 Silicone Assembly Sealant

FEATURES & BENEFITS

- Instant green strength delivers improved productivity in assembly applications
- 100% silicone
- Low volatile organic content < 24 g/L (exempt in CA)
- Excellent clarity
- Neutral moisture cure RTV
- Non-hazardous composition
- Primerless adhesion to common substrates
- Can be used with standard hot-melt dispensing equipment including XY glazing equipment
- Recommended dispensing temperatures between 115°C and 130°C (239°F and 266°F)
- Pot life up to 24 hours at 120°C (248°F)
- Long open/working time

COMPOSITION

- 100% silicone moisture-reactive hot-melt adhesive

Neutral-cure RTV silicone hot-melt adhesive for the assembly of windows and doors

APPLICATIONS

- DOWSIL™ 2400 Silicone Assembly Sealant is designed for use as a primerless bonding and sealing solution in the assembly of windows and doors. It is used with various types of high-speed automated equipment including XY tables and robots. It can be applied on most common fenestration materials for standard and impact glazing, and is also compatible with most insulating glass sealants.

TYPICAL PROPERTIES

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

Test ¹	Property	Unit	Result
CTM 0176	Appearance		Clear
CTM 0044	Specific gravity, uncured		1.08
CTM 1134	Viscosity at 120°C (248°F)	Pa·s	70
CTM 0839	Nonvolatile content	wt%	≥ 98.5
CTM 0243	Open time ²	minutes	15
ASTM C961	Green strength at 4 hours – aluminum	psi	4
	Cure time, 3 mm bead ³	days	< 2
ASTM C961	Lap shear strength – aluminum	psi	90
ASTM C661	Hardness – durometer type A scale		60
ASTM D412	Ultimate tensile strength	psi	630
ASTM D412	Ultimate elongation	%	1300
ASTM C794	Adhesion-in-peel strength	pli	> 30
ASTM C1184	Stress-at-break under different conditions – glass	psi	> 100
ASTM C719	Movement capability	%	± 50
ASTM C711	Low temperature flexibility	°C (°F)	-50°C (-58°F)
ASTM C793	Weathering resistance		Excellent
	Service temperature range	°C (°F)	-50 to 150 (-58 to 302)
ASTM D4498	Shear adhesion failure temperature	°C (°F)	> 300 (> 572)

¹CTM: Corporate Test Method corresponds to ASTM (American Society for Testing and Materials) standard test methods in most instances. Copies of CTMs are available upon request.

²To ensure adhesion to substrate.

³Full cure in a manufactured assembly depends on joint design and exposure to atmospheric moisture.

DESCRIPTION

DOWSIL 2400 Silicone Assembly Sealant is a 100 percent silicone, neutral-cure sealant formulated to meet the demanding requirements of a backbedding sealant for the high speed manufacturing of windows and doors. DOWSIL 2400 Silicone Assembly Sealant delivers instant green strength to offer productivity improvements in backbedding applications. Windows made with DOWSIL 2400 Silicone Assembly Sealant can be immediately handled without the risk of compromising the integrity of the seal or distorting of the sash.

DOWSIL 2400 Silicone Assembly Sealant is available in clear.

APPROVALS/ SPECIFICATIONS

- AAMA 805.2-10

HOW TO USE

Preparation

Surfaces should be clean and dry before sealant application.

Application

DOWSIL 2400 Silicone Assembly Sealant is applied from 20-liter pails or 200-liter drums using a heated platen-type bulk hot-melt system. Application temperature is typically between 115 and 130°C (239 and 266°F). Application with automated or hand-assisted glazing equipment can begin once the melt temperature is reached.

After applying the sealant to the sash, the glass unit should be installed within 15 minutes to ensure adhesion. Once applied, this product reacts with atmospheric moisture to form a weather resistant, flexible silicone sealant. Exposure of opened containers with air should be minimized.

HANDLING PRECAUTIONS PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE

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Material is applied between 115 and 130°C (239 and 266°F). Use common personal protective equipment to prevent contacting the hot material with skin or eyes.

USABLE LIFE AND STORAGE

When stored at or below 32°C (90°F) in original unopened containers, DOWSIL 2400 Silicone Assembly Sealant has a usable life of 12 months from the date of manufacture. Refer to product packaging for “Use By Date”.

PACKAGING INFORMATION

DOWSIL 2400 Silicone Assembly Sealant is available in 6 gal (20 L) pails containing 48 lb (22 kg), and 55 gal (200 L) drums containing 452 lb (205 kg).

LIMITATIONS

DOWSIL 2400 Silicone Assembly Sealant is not intended for use:

- In spaces totally confined from atmospheric moisture during cure
- In continuous water immersion
- In below-grade applications
- In structural glazing applications
- As an insulating glass sealant
- On surfaces that require painting or staining
- On surfaces that might bleed oils, plasticizers or solvents
- On frost-laden or wet surfaces
- When movement capability greater than ± 50 percent is required

Avoid prolonged exposure to citrus containing cleaners, solvents and solvent-based cleaners.

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.

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