Silicone Construction Sealant Solutions from Dow



For more than 60 years, Dow has provided the construction industry with the finest silicone construction products available, including adhesives, sealants and coatings for structural glazing and weatherproofing. Our name means quality, and our technical expertise and service have become the industry standard.

We built our long history of achievement and reputation for excellence on four pillars that contribute to your success:

- Service and Support
- Reliable Supply
- A Trusted Brand Name
- Superior Warranties

What Does Dow Give You?

Flexibility

Our silicone structural glazing products attach glass, ceramic, metal, stone and composite panels to building frames, allowing you to create unique and beautiful structures while providing outstanding movement capability and excellent durability.

Protection

Our silicone weathersealing products provide excellent, unprimed adhesion to many common building substrates, creating a strong, durable envelope that will protect your buildings from the elements for years to come

Confidence

Dow provides up to 20 years of outstanding protection with limited weatherproofing, structural glazing and non-staining warranties.

Typical Characteristics of Silicone Construction Materials from Dow

Product Recommended Application	Description	Neutral-Cure System	Ultimate Tensile (psi) ASTM C1135	Durometer Shore A, Points	Ultimate Tensile (psi) ASTM D412	Joint Movement, %	1-Part or 2-Part Cure	Tooling Time, min.	All-Temperature Gunnability[1]		VOC Content[2], g/L	Primer Required[3]							Warranty	Chalking & Cracking	UV Light Resistance	Colors Available	Custom Colors	Packaging	Specifications & Standards
												Fluoropolymer Paint	Silicone Polyester Paint	Anodized Aluminum	Alodine-Treated Aluminum	Granite	Limestone	Concrete							
DOWSIL™ 756 SM Building Sealant Weatherproofing	Non-stain weatherproofing sealant for use on sensitive substrates.	Yes		35		±50	1-Part	30	Yes		22	No	No	No	No	No	Yes: 1200 OS/ Primer P	Yes: Primer P	20 Years	No	Excellent	6	Yes	Sausages Pails	• SWRI Validation • ASTM C 920, Type S, Grade NS, Class 50, Use NT, G, M, A, O • ASTM C 719, ±50%
DOWSIL™ 121 Structural Glazing Sealant Structural Glazing, Glazing	A fast-cure, 1:1 mix ratio structural silicone sealant that simplifies installation and reduces repair time.	Yes	121	30	300	±25	2-Part	15-45	Apply >-10F		<25 g/L	Primer-C OS	Primer-C OS	Yes: 1200 OS	Yes: 1200 OS	N/A	N/A	N/A	20 Years		Excellent	Black Dark Gray	No	400 mL (2*200 mL) Cartridge	• SWRI Validation • ASTM C719 Class 25 (G, A, O) • ASTM C1184 Structural Sealant Specification
DOWSIL™ 123 Silicone Seal Weatherproofing	Preformed, ultra-low-modulus silicone extrusion; can be bonded to a wide variety of substrates; withstands +200/-75% joint movement.	N/A		25		Extension: +200 Compression: -75	N/A	N/A	N/A		N/A	791 No 795 Yes: 1200 OS	791 or 795 No	791 or 795 No	791 or 795 No	791 or 795 No	791 or 795 Yes: 1200 OS/ Primer P	791 or 795 Yes: Primer P	10 Years	No	Excellent	11	Yes	100-Foot Rolls	• Modified ASTM C 719, +200/-75% • Designed for new construction and renovation
DOWSIL™ ALLGUARD Silicone Elastomeric Coating Waterproofing	One-part, field-pigmented, water-based silicone elastomer for waterproofing exterior above-grade substrates.	Yes	N/A	N/A	N/A	N/A	1-Part	N/A	Apply >20°F			N/A	N/A	N/A	N/A	No	No	No	10 + 10 Years	No	Excellent	55	Yes	Pails	• SWRI Validation • Check data sheet for ASTM specs • Designed for new construction and renovation
DOWSIL™ 758 Silicone Weather Barrier Sealant Waterproofing	One-part, neutral-cure silicone sealant; designed for adhering to common sheet or peel-and-stick weather-resistant barriers.	Yes		45		±25	1-Part	N/A	Yes		42	No	No	No	No	Primer P	Primer P	Primer P	N/A	No	Excellent	White	No	Sausages	• ASTM C719 ±25% • ASTM C920, Type S, Grade NS, Class 25, Use G, A, O
DOWSIL™ 790 Silicone Building Sealant Weatherproofing	One-part formulation cures to a durable, flexible and ultra-low-modulus silicone rubber joint seal; offers outstanding unprimed adhesion to masonry.	Yes		15		Extension: +100 Compression: -50	1-Part	10-20	Yes		43	Yes: 1200 OS	Yes: 1200 OS	Yes: Test/ 1200 OS	Yes: 1200 OS	No	1200OS	No	20 Years	No	Excellent	13	Yes	Cartridges Sausages Pails	• SWRI Validation • ASTM C 920, Type S, Grade NS, Class 100/50, Use T, NT, M, G, A, O • ASTM C 719, +100/-50%
DOWSIL™ 791 Weatherproofing Sealant Weatherproofing	One-part, medium-modulus sealant offers unprimed adhesion to most window frame materials and outstanding tear strength.	Yes		30		±50	1-Part	15	Yes		46	No	No	No	No	No	Yes: 1200 OS/ Primer P	Yes: Primer P	20 Years	No	Excellent	7	Yes	Cartridges Sausages	• SWRI Validation • ASTM C 920, Type S, Grade NS, Class 50, Use NT, M, G, A
DOWSIL™ FC Parking Structure Sealant Weatherproofing	Two-part, fast-curing, self-leveling sealant that cures to an ultra-low-modulus silicone rubber for use in horizontal joints.	Yes		60 Shore OO		Extension: +100 Compression: -50	2-Part	N/A	Yes		30	N/A	N/A	Yes	Yes	N/A	N/A	No	5 Years	No	Excellent	Gray	No	Sausages	• ASTM C 719, +100/-50%
DOWSIL™ SL Parking Structure Sealant Weatherproofing	One-part, self-leveling sealant that cures to an ultra-low-modulus silicone rubber for use in horizontal joints.	Yes		50 Shore OO		Extension: +100 Compression: -50	1-Part	N/A	Yes		30	N/A	N/A	N/A	N/A	N/A	N/A	No	5 Years	No	Excellent	Dark Gray	No	Cartridges Pails	• ASTM C 719, +100/-50%
DOWSIL™ NS Parking Structure Sealant Weatherproofing	One-part, non-sagging sealant that cures to a low-modulus silicone rubber for use in vertical and horizontal joints.	Yes		15		Extension: +100 Compression: -50	1-Part	10-20	Yes		37	Yes: 1200 OS	Yes: 1200 OS	Yes: 1200 OS	Yes: 1200 OS	No	1200 OS	No	5 Years	No	Excellent	Gray	No	Cartridges Pails	• ASTM C 920, Type S, Grade NS, Class 100/50, Use T • ASTM C 719, +100/-50%
DOWSIL™ 795 Silicone Building Sealant Structural Glazing, Glazing, Weatherproofing	One-part formulation cures to a durable, flexible seal that can accommodate ±50% movement in properly designed expansion and control joints for both new construction and remedial applications.	Yes	80	35	170	±50	1-Part	20-30	Yes		28	Yes: 1200 OS	No	No	No	No	Yes: 1200 OS/ Primer P	Yes: Primer P	20 Years	No	Excellent	15	Yes	Cartridges Sausages Pails	• SWRI Validation • ASTM C 1184, Specification for Structural Silicone Sealants • ASTM C 920, Type S, Grade NS, Class 50, Use NT, G, A, O
DOWSIL™ 983 Structural Glazing Sealant Structural Glazing, Glazing	Two-part formulation cures to a high-modulus elastomeric adhesive/sealant. Tested in impact glazing systems for use in hurricane- and blast-resistant installations.	Yes	160	40	300	±25	2-Part	12-25	Apply >50°F		18	Yes: 1200 OS/ Primer C	No	No	No	N/A	N/A	N/A	20 Years	No	Excellent	Gray Black	No	Pails Drums	• ASTM C 1184, Specification for Structural Silicone Sealants • ASTM C 920, Type M, Grade NS, Class 25
DOWSIL™ 995 Silicone Structural Sealant Structural Glazing, Glazing	One-component, shelf-stable, neutral-cure; formulated for silicone structural glazing; also used for impact-resistant protective glazing in high-performance window film applications.	Yes	170	40	350	±50	1-Part	10-20	Yes		30	No	No	No	No	No	N/A	N/A	20 Years	No	Excellent	Black Gray White	No	Cartridges Pails Drums	• SWRI Validation • ASTM C 1184, Specification for Structural Silicone Sealants • ASTM C 920, Type S, Grade NS, Class 50, Use NT, G, A • ASTM C 719, ±50%
DOWSIL™ 999-A Building and Glazing Sealant Glazing	Easily applied, one-part formulation that cures to produce a durable, flexible wet glazing and curtainwall seal.	No		25		±25	1-Part	5-10	Yes		40	Yes	No	Yes: 1200 OS	Yes: 1200 OS	N/A	N/A	N/A	10 Years	No	Excellent	Clear & 5 Colors	Yes	Cartridges Pails	• FDA Regulation 21 CFR 177.2600 subject to end use compliance • ASTM C 920 • USDA authorized for use in federally inspected meat and poultry plants, classified as USDA-P1

Specification Writers: Please contact Dow before writing specifications on these products.
[1]-20 to 122°F
[2]For a VOC data sheet for a specific sealant color, please visit consumer.dow.com/construction.
[3]All substrates and sealant combinations must be field tested to confirm general recommendations from this table.
N/A = Not Applicable

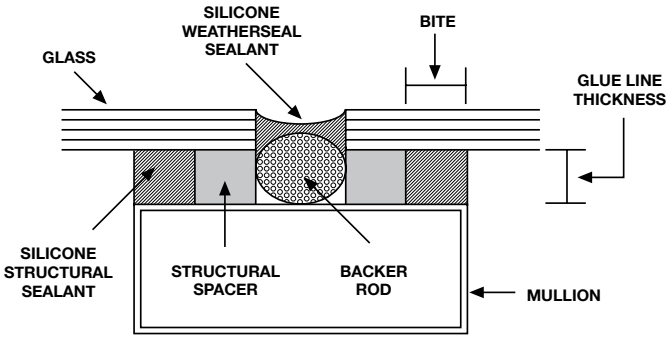
791 = DOWSIL™ 791 Weatherproofing Sealant
795 = DOWSIL™ 795 Silicone Building Sealant
1200 OS = DOWSIL™ 1200 OS Primer
Primer C = DOWSIL™ Primer C-OS
Primer P = DOWSIL™ Construction Primer P

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Sealant Features & Benefits

- Virtually unaffected by weather or temperature extremes
- Stay flexible and maintain adhesion, even when stretched or compressed
- Resist cracks, splits or tears
- Apply easily over a wide temperature range
- Protect buildings typically three times longer than organic materials in the same applications
- Perform with successful track records in diverse applications
- Provide outstanding life-cycle value

No wonder our products and services are among the most respected in the industry.



Visit **dow.com/buildingscience** for detailed technical manuals, specifications and installation guides.

The Value Behind the Name

Throughout the construction process, Dow will assist you in providing the right products, solutions and services.

Design: Dow products and services will help you use innovative materials and technologies that can assist in enhancing your project's aesthetic appeal, performance and longevity.

Specify: Dow provides technical data and resources, including comprehensive testing and support services, that give you the confidence to assure your customers that they are getting the best products and support available.

Build: Dow is more than just a materials supplier.
Our staff of experts is there throughout the construction process to answer questions, help resolve issues and provide technical support. As long as you are on the job, we are on the job.

Learn More

For more information about how Dow silicone solutions can help meet your high performance building needs, visit **dow.com/contactus.**

NOTE: Any review, recommendation or statement made on behalf of Dow relating to any engineering design, architectural drawing, product formulation, end-use specification or similar document is limited to the knowledge of the product properties as determined by laboratory testing of material produced by Dow. Any comments or suggestions relating to any subject other than such product properties are offered only to call the attention of the engineer, architect, formulator, end-user or other person to considerations that may be relevant in an independent evaluation and determination of the appropriateness of such design, drawing, specification, document or formula.

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