

DOWSIL™ Brand Silicone Construction Materials: Construction project service



Dow offers excellent project services

Our technical service and support are well-regarded in the industry. We can help you with any one of the following state-of-the-art technical services. Contact us regarding any of our services at dow.com/buildingscience. We can help!

Dow supports the construction industry – globally

Dow is your global construction resource for silicone sealants, coating products and services tailored to address your construction needs. We can help you select a product well-suited to your application by explaining:

1. The number of products available and what their properties are
2. New construction substrates and surface treatments
3. Special sealant requirements in structural silicone
4. Aesthetic requirements on weatherproofing projects
5. Labor-saving products for new and renovation projects

Dow professionals are available to assist you in this important task.

Product recommendations

Dow will review shop drawings or prints, and other project specification information. We can assist you in the selection of the proper silicone construction products from the following list:

DOWSIL™ 121 Structural Glazing Sealant
DOWSIL™ 756 SM Building Sealant
DOWSIL™ 758 Silicone Weather Barrier Sealant
DOWSIL™ 786 Silicone Sealant
DOWSIL™ 790 Silicone Building Sealant
DOWSIL™ 791 Silicone Weatherproofing Sealant
DOWSIL™ 795 Silicone Building Sealant
DOWSIL™ 799 Silicone Glass and Metal Building Sealant
DOWSIL™ 983 Structural Glazing Sealant
DOWSIL™ 995 Silicone Structural Sealant
DOWSIL™ 999A Silicone Glazing Sealant
DOWSIL™ 123 Silicone Seal
DOWSIL™ 123 Silicone Seal H.C.
DOWSIL™ ALLGUARD Silicone Elastomeric Coating

These are all excellent options for your glazing or weatherproofing applications.

Adhesion testing

Dow will evaluate, in standard laboratory tests, the adhesion of our products to job site or representative job site materials (e.g., glass, metal, masonry, composite panels). Results of the adhesion testing, plus product, surface preparation and primer (if needed) recommendations, will be forwarded in writing. Testing takes a minimum of three weeks.

NOTE: All structural silicone glazing applications must be reviewed by the Dow Technical Service staff prior to use.

DOWSIL™silicones by 

Compatibility testing

To help ensure compatibility, Dow also will test and offer information on the compatibility of accessory materials (e.g., gaskets, spacers, structural glazing tapes, setting blocks) and our silicone products. Incompatibility of glazing materials can lead to sealant discoloration and/or loss of adhesion to the substrate. Testing takes a minimum of four weeks.

NOTE: All structural silicone glazing applications must be reviewed by the Dow Technical Service staff prior to use.

Stain testing

Dow will test and evaluate the performance of its sealants with respect to fluid migration into porous substrates. Results of testing will be forwarded in writing. Testing takes a minimum of 35 days.

NOTE:

- The standard services are offered free of charge.
- Test results will relate only to DOWSIL™ brand silicone construction materials and the specific construction project under test.
- Samples submitted for evaluation should be identified by project name, manufacturer and composition.
- Information regarding sample submittal procedures can be obtained from your local Dow application sales engineer or distributor. To obtain your representative's name and location, call +1 800 346 9882 or contact us via dow.com/buildingscience.

Other test requirements

If additional, nonstandard testing is required, we can offer this to you with a negotiated service charge. Please consult your local Dow application sales engineer at the beginning of the project or check our website at dow.com/constructionservices.

Any review, recommendation or statement made on behalf of Dow relating to an engineering design, architectural drawing, product formulation, end-use specification or similar document is limited to the knowledge of 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 to the attention of the engineer, architect, formulator, end-user or other person in the considerations that may be relevant in independent evaluation and determination of the appropriateness of such design, drawing, specification, document, or formula. Dow assumes no responsibility for the comments or suggestions relative to subjects other than such product properties, and expressly disclaims any warranty or responsibilities for same. *Please read your product specifications.*

Project-specific warranty options		Prior laboratory testing required?	Field adhesion testing required?	Print review required?
Structural Adhesion	DOWSIL™ 121 Structural Glazing Sealant DOWSIL™ 795 Silicone Building Sealant DOWSIL™ 983 Structural Glazing Sealant DOWSIL™ 995 Silicone Structural Sealant	Yes	Yes	Yes
Weatherseal	DOWSIL™ 756 SM Building Sealant DOWSIL™ 758 Silicone Weather Barrier Sealant DOWSIL™ 790 Silicone Building Sealant DOWSIL™ 791 Silicone Weatherproofing Sealant DOWSIL™ 795 Silicone Building Sealant DOWSIL™ 995 Silicone Structural Sealant	No ¹	Yes	No
Non-Staining	DOWSIL™ 756 SM Building Sealant DOWSIL™ 790 Silicone Building Sealant DOWSIL™ 791 Silicone Weatherproofing Sealant DOWSIL™ 795 Silicone Building Sealant DOWSIL™ 983 Structural Glazing Sealant DOWSIL™ 995 Silicone Structural Sealant	Yes	Yes	No
DOWSIL™ 123 Silicone Seal Weatherseal System	DOWSIL™ 123 Silicone Seal with DOWSIL™ 791 Silicone Weatherproofing Sealant or DOWSIL™ 795 Silicone Building Sealant, with or without DOWSIL™ ALLGUARD Silicone Elastomeric Coating	No	Yes	No
DOWSIL™ ALLGUARD Silicone Elastomeric Coating		No ²	Yes	No
DOWSIL™ Brand Parking Structure Sealants	DOWSIL™ NS Parking Structure Sealant DOWSIL™ SL Parking Structure Sealant DOWSIL™ FC Parking Structure Sealant	No	Yes	No

¹Surfaces not listed in Dow's *Surface Preparation Guide* or other technical literature will require prior testing or pre-job field adhesion testing to be performed and documented for the Weatherseal Limited Warranty to apply.

²Pre-job field testing is required and must be documented.

Current copies of our limited warranties and application forms for warranty requests are available from our authorized Dow distributors or the Dow Business Center. To obtain your representative's name and location, call +1 800 346 9882 or contact us via dow.com/buildingscience. Additional information regarding submission procedures for obtaining a specific limited warranty follows on the next pages.



Dow silicone construction materials: Warranty offerings

Project-specific warranties are available for DOWSIL™ silicone construction materials as indicated below. Some may require prior print review and laboratory testing by Dow. Because testing can take up to 35 days, advanced planning will be required to help ensure a timely issuance of the warranty. Some warranties require documentation of field adhesion testing prior to and during a project. Retain this documentation for the warranty to be valid. You should review all warranty requirements with your Dow representative prior to project initiation. (See table on previous page.)

Submission procedures for obtaining limited warranties for Dow silicone construction materials

Non-Staining Limited Warranty

The 20-Year Non-Staining Limited Warranty is available for our entire building sealant product line. For you to obtain this warranty, Dow must perform project-specific substrate testing – and written recommendations, as detailed on the warranty, must be followed and documented for this warranty to be valid. Porous substrates, such as granite, marble, limestone and travertine, are tested to determine whether fluid in the sealant has the potential to migrate into the stone.

Two 1" x 3" substrate samples per sealant tested are requested. Testing requires 35 days for completion.

Structural Adhesion Limited Warranty

The 20-Year Structural Adhesion Limited Warranty is available only for DOWSIL™ 121 Structural Glazing Sealant, DOWSIL™ 995 Silicone Structural Sealant, DOWSIL™ 983 Structural Glazing Sealant and DOWSIL™ 795 Silicone Building Sealant.

For you to obtain this warranty, Dow must perform project-specific adhesion and compatibility testing on all substrates that will contact the structural silicone. Also, Dow must review the structural glazing drawings and job specifications for the project. These services are outlined below.

For this warranty to be valid, all written recommendations detailed in the warranty must be followed and documented. Additionally, adhesion testing must be performed in the field, documented and retained to confirm laboratory and/or general recommendations.

A. Adhesion testing for Structural Adhesion Limited Warranty

Adhesion testing is performed on any substrates to which the structural silicone sealant will adhere, including metal framing, stone, glass and plastic.

We request that you submit samples that are representative of actual job site conditions. For example, instead of submitting a paint chip, submit a painted metal extrusion.

Submit samples no smaller than 4" x 6" and no larger than 12" x 12" for each sealant to be tested; submit two samples in this size range. Allow 21 days for testing.

B. Compatibility testing for Structural Adhesion Limited Warranty

Gaskets, structural glazing tape, spacers and setting blocks that the silicone will contact are tested for compatibility with the specified sealant.

Submit a 4-6" long sample of each substrate for each sealant to be tested. Allow 30 days for testing.

C. Blueprint or drawing review for Structural Adhesion Limited Warranty

For vertical structural glazing, details showing the structural sealant bite and glueline thickness, glass/panel sizes, and appropriate windloads must be provided for review. For 4-sided systems or deadload conditions, provide the structural sealant details, glass/panel size, weight in psf and windload. For sloped glazing, provide the angle from horizontal in degrees, the structural sealant details, glass/panel size, weight in psf and windload for each structural application.

Weatherseal Limited Warranty

This warranty is available when our silicone building sealants are used in non-structural applications – for example, as perimeter seals, weatherseals and cap beads. Our building sealants carry up to a 20-year maximum term for the Weatherseal Limited Warranty. **Field adhesion testing is required** to obtain these warranties and must be documented and retained for this warranty to be valid. Field adhesion test procedures and the *Surface Preparation Guide* are included in the *Dow Americas Technical Manual*, Form No. 62-1112.

To qualify for warranty coverage, the sealant must be applied according to the *Dow Sealant Application Guide*, which may be found in the *Dow Americas Technical Manual*, Form No. 62-1112.

Dow's Weatherseal Limited Warranties are applicable to both new and remedial projects. Because remedial projects differ greatly, please contact your local Dow representative or distributor for assistance in defining your sealant application requirements.

DOWSIL™ 123 Silicone Seal Warranty

A 10-year project-specific warranty is available for DOWSIL™ 123 Silicone Seal, used with a sealant and DOWSIL™ ALLGUARD Silicone Elastomeric Coating (optional). Instructions for proper application procedures to qualify for a warranty are found in the *EIFS Application Guide*, Form No. 62-510, and the *DOWSIL™ ALLGUARD Silicone Elastomeric Coating Application Guide*, Form No. 62-617.

Testing requirements for Weatherseal Limited Warranty and DOWSIL™ 123 Silicone Seal Warranty

Dow publishes a *Surface Preparation Guide*, which offers general recommendations for our products on a wide variety of substrates. For this warranty to apply, **adhesion testing must be performed in the field, documented and retained** to confirm laboratory and/or general recommendations.

For cap bead weathersealing over existing gaskets, laboratory compatibility testing is particularly important in determining sealant compatibility if light-colored sealants are considered. Sealant colors of black, bronze or charcoal will mask discoloration and perform as a weatherseal on non-silicone gaskets.

DOWSIL™ Brand Parking Structure Sealants Warranty

A 5-year project-specific warranty is available for all parking structure sealant products. Sealants must be applied according to the procedures identified in the *DOWSIL™ Brand Parking Structure Sealants*, Form No. 62-481. In addition, **field adhesion testing must be performed, documented and retained** as part of the warranty application process. Completion date refers to when the application of the DOWSIL™ Brand Parking Structure Sealant was finished.

DOWSIL™ ALLGUARD Silicone Elastomeric Coating Warranty

A 10-year project-specific warranty is available for DOWSIL™ ALLGUARD Silicone Elastomeric Coating. To qualify for the warranty, the product must be applied according to the instructions in the *DOWSIL™ ALLGUARD Silicone Elastomeric Coating Application Guide*, Form No. 62-617, and 10 dry mils coverage must be verified. In addition, **field adhesion testing must be performed, documented and retained** as part of the warranty application process. This testing must be done prior to the start of the project. Warranty applications must include the amount of area covered and the amount of DOWSIL™ ALLGUARD Silicone Elastomeric Coating used. Completion date refers to when the application of the DOWSIL™ ALLGUARD Silicone Elastomeric Coating was finished.

Dow also offers a 10-year extended waterproofing performance warranty for reapplication (one 14-mil wet coat/7-mil dry coat) after the initial warranty period, subject to terms and restrictions

Other warranties

For VIP Weatherseal System (which may include DOWSIL™ 123 Silicone Seal and DOWSIL™ ALLGUARD Silicone Elastomeric Coating) and VIP Stadium, Protective Glazing, Contractors Weatherproofing, General Product and Exception warranties, consult your authorized Dow distributor prior to the start of the project. To find the name and phone number of your Dow distributor, please visit [dow.com/buildingscience](https://www.dow.com/buildingscience).

For more information

Learn more about the full range of Dow Building Science offerings, including products, service and support, at [dow.com/buildingscience](https://www.dow.com/buildingscience).

Dow has sales offices, manufacturing sites, and science and technology laboratories around the globe. Find local contact information at [dow.com/contactus](https://www.dow.com/contactus).



Dow Building Science website:

[dow.com/buildingscience](https://www.dow.com/buildingscience)



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Form No. 62-685-01-0724 AGP