

# DOWSIL™ Silicone Construction Materials: Construction project service



## Dow offers outstanding project services

Our technical service and support are unmatched 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/construction](http://dow.com/construction). We can help!

## Dow supports the construction industry – globally

Dow is your global construction resource for silicone sealants, coating products and services tailored to meet your construction needs. We can help you select the best product for 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. New 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 SMS 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.

## Compatibility testing

To ensure compatibility, Dow also will test and provide 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/construction](http://dow.com/construction).

## Other test requirements

If additional, non-standard testing is required, we can provide 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](http://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 offerings		Prior laboratory testing required	Field adhesion testing required	Print review required
<b>Structural adhesion</b>	DOWSIL™ 121 Structural Glazing Sealant DOWSIL™ 795 Silicone Building Sealant DOWSIL™ 983 Structural Glazing Sealant DOWSIL™ 995 Silicone Structural Sealant	Yes	Yes	Yes
<b>Weatherseal</b>	DOWSIL™ 756 SMS 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*	Yes	No
<b>Non-staining</b>	DOWSIL™ 756 SMS 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
<b>DOWSIL™ 123 Silicone Seal Weatherseal System</b>	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
<b>DOWSIL™ AllGuard Silicone Elastomeric Coating</b>		No**	Yes	No
<b>DOWSIL™ brand parking structure sealants</b>	DOWSIL™ NS Parking Structure Sealant DOWSIL™ SL Parking Structure Sealant DOWSIL™ FC Parking Structure Sealant	No	Yes	No

\* Surfaces 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.

\*\* Pre-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/construction](http://dow.com/construction). 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 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 Restoration Guide*, Form No. 62-510, and the *DOWSIL™ AllGuard Silicone Elastomeric Coating Application and Maintenance Guide*, Form No. 62-617.

### Testing requirements for weatherseal limited warranty and DOWSIL™ 123 Silicone Seal warranty

Dow publishes a Surface Preparation Guide, which provides 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™ 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 Installation Guide*, 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™ 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 and Maintenance 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.

### 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/construction](http://dow.com/construction).

### For more information

Learn more about Dow's full range of High Performance Building solutions, including service and support, at [dow.com/construction](http://dow.com/construction).

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



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#### 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.DOW.COM](http://WWW.DOW.COM), OR FROM YOUR DOW SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CUSTOMER SERVICE.

#### 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.

Dow's sole warranty is that our products will meet the sales specifications in effect at the time of shipment.

Your exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted.

**TO THE FULLEST EXTENT PERMITTED BY APPLICABLE LAW, DOW SPECIFICALLY DISCLAIMS ANY OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY.**

**DOW DISCLAIMS LIABILITY FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES.**

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