

Dow Corning® 756 Silicone Building Sealant-H.P.

1. PRODUCT NAME

Dow Corning® 756 Silicone Building Sealant-H.P.

2. MANUFACTURER

Dow Corning Corporation
Midland, MI 48686-0994
Phone: (517) 496-6000
FAX: (517) 496-4586

3. PRODUCT DESCRIPTION

Dow Corning 756 Silicone Building Sealant-H.P. is a medium-modulus elastomeric sealant specifically designed for weatherproofing sensitive porous stone and metal panel substrates. It is a two-part silicone formulation that requires mixing prior to use to obtain all its dry matte finish aesthetic properties. However, if the additive component is not used, the sealant will still cure and function as a durable weatherseal. Dow Corning 756 Silicone Building Sealant-H.P. cures to a flexible elastomer on exposure to atmospheric moisture, producing a durable, weather-resistant seal with the ability to form strong bonds with most building materials. Because of its medium modulus and good adhesion, it provides excellent weatherproofing performance in dynamically moving building joints.

Dow Corning 756 Silicone Building Sealant-H.P. with Dow Corning® 756 Additive offers these important features:

- Cures to form a unique, dry matte finish surface.
- Improved aesthetic performance – reduces long-term residue rundown on metal panels and reflective glass or staining on porous substrates.
- Good working time, long pot life and tooling time.
- All-temperature gunnability – from -29 to 50°C (-20 to 122°F), permitting application in all seasons.
- Medium modulus, high movement capability – can accommodate ±50

percent movement in a properly designed joint.

- Unprimed adhesion to most glass, metal, brick, fluoropolymer painted substrates and granite substrates. Primed adhesion to other common construction substrates, such as aluminum, marble, limestone and concrete.
- Excellent weatherability – non-reverting silicone durability.
- Compatible with open-cell polyurethane, closed-cell polyethylene, and nongassing polyolefin backer rods.
- Paintable – may be painted with water- or oil-based paints after full cure and up to six months after installation.
- A 20-year weatherseal limited warranty is available.

Basic Uses: Dow Corning 756 Silicone Building Sealant-H.P. is particularly effective for sealing expansion and control joints, metal panel joints, curtainwall joints, joints between natural stone, and perimeter seals around window frames. It forms a durable, flexible, watertight bond with most building materials. Dow Corning 756 Silicone Building Sealant-H.P. is intended to be applied in new and remedial construction.

Limitations: This product is not intended for use:

- In structural glazing applications or where the sealant is intended as an adhesive.

TYPICAL PROPERTIES

These values are not intended for use in preparing specifications.

As Supplied

Color	White, Limestone, Gray, Bronze, Black, Custom Colors
ASTM C 679 Tack-Free Time, 50% RH, hours	6
Curing Time, 50% RH at 25°C (77°F), days	7-14
ASTM C 639 Flow, Sag or Slump, inches	0.1
Working Time, minutes	>60

As Cured

ASTM D 2240 Durometer Hardness, Shore A, points	17
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As Cured – After 14 days at 25°C (77°F)

ASTM D 412 Ultimate Tensile Strength, psi	250
ASTM D 412 Ultimate Elongation, percent	900
ASTM C 794 Peel Strength, unprimed to glass, fluoropolymer coatings and brick, lb/in	>25
ASTM D 624 Tear Strength, Die B, ppi	30
ASTM C 1248 Staining/Migration, white marble	None

As Cured – After 21 days at 25°C (77°F)

ASTM C 719 Joint Movement Capability, glass, aluminum, percent	±50
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Specification Writers: Please obtain a copy of the Dow Corning Sales Specification for this product, and use it as a basis for your specifications. It may be obtained from any Dow Corning Sales Office, or from Dow Corning Customer Services in Midland, MI. Call 1-800-322-8723.

Table I: Typical Surface Preparation and Priming Recommendations

<u>Substrate</u>	<u>Surface Preparation</u> ¹	<u>Recommended Primer</u>
Brick	Abrade	None
Concrete and Masonry	Abrade	1205 ²
Limestone	Abrade/Solvent Wipe	1200 ³
Marble	Abrade/Solvent Wipe	1205
Granite	Abrade/Solvent Wipe	None
Aluminum (Anodized, Mill Finish)	Solvent Wipe	1200
Glass	Solvent Wipe	None
Fluoropolymer Painted Surfaces	Solvent Wipe	None
Fiber Reinforced Cement	Solvent Wipe	1205

¹Abrade – Mechanical surface preparation such as wire brush and sand blast. Should always be followed by residual dust removal. Please note Dow Corning's recommendations for removal of existing sealants, substrate cleaning, joint preparation, and installation of Dow Corning® sealants are not intended and may not be appropriate for remedial work involving existing sealants and/or joints containing PCBs or other potentially hazardous substances. If you know or suspect that the existing sealants and/or joints contain PCBs or other hazardous substances, contact a knowledgeable authority on appropriate removal, handling, and disposal procedures.

Solvent Wipe – Using the two-cloth cleaning method, wipe the surface with a clean, oil-free cloth, wet with industrial solvent such as xylene, toluene, isopropyl alcohol (IPA), or ketones (MEK or MIBK). Immediately wipe with a separate clean, oil-free cloth before the solvent evaporates. Test small sample to ensure solvent does not affect finish. Follow solvent manufacturer's safe handling recommendations and local, state, and federal regulations regarding solvent usage.

²1205 – Dow Corning® 1205 Prime Coat.

³1200 – Dow Corning® 1200 Prime Coat.

Questions? Consult your Dow Corning Technical Service representative or contact Dow Corning Customer Service at 1-800-322-8723.

- In interior or shaded areas, Dow Corning 756 Silicone Building Sealant-H.P. may yellow if not exposed to UV or sunlight. Discoloration is most noticeable in light colors.
- In areas where abrasion and physical abuse are encountered.
- In spaces totally confined from atmospheric moisture during cure.
- On frost-laden or damp surfaces.
- For prolonged submersion in water.
- On surfaces that might bleed oils, plasticizers or solvents – materials such as impregnated wood, oil-based caulks, green or partially vulcanized rubber gaskets, tapes, bitumen-impregnated boards, felts, or sheets.
- In below-grade applications.
- On substrates made of polypropylene, polyethylene, polycarbonate, and polytetrafluoroethylene (Teflon®).
- Where movement capability greater than ±50 percent is required.

Dow Corning 756 Silicone Building Sealant-H.P. will not improve pre-existing staining or residue rundown conditions. Surface appearance of any sealant will depend upon environmental conditions.

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

Packaging: 1.5 gallons of pre-pigmented Dow Corning 756 Silicone Building Sealant-H.P. is provided in a 2-gallon air-tight metal pail. Inside the pail is a 4-oz. bottle of Dow Corning 756 Additive.

Storage and Shelf Life: When stored below 80°F (27°C), Dow Corning 756 Silicone Building Sealant-H.P. has a shelf life of 12 months from date of manufacture. Refer to product packaging for "Use By Date."

Pot Life: Maximum pot life is 48 hours if the lid is kept on the sealant pail when not in use. Pot life is reduced in hot, humid climates or applications. Remove any skin on the sealant surface that may have formed prior to use.

4. TECHNICAL DATA

Composition and Materials: Dow Corning 756 Silicone Building Sealant-H.P. is a medium-modulus, two-part, pre-pigmented material. The fully mixed sealant has the consistency of a soft paste. Priming may be required on some substrates. See Table I.

5. INSTALLATION

Mixing: Complete mixing instructions are provided on the pail of the sealant. Dow Corning 756 Additive must be mixed well with sealant to

obtain the dry matte finish. Generally, 5 minutes of continuous mixing is satisfactory. Unmixed Dow Corning 756 Silicone Building Sealant-H.P. will also cure and perform but will result in surface modified appearance and attributes.

Preparatory Work: The application surface must be clean, dry, sound and frost-free. Mask adjacent surfaces and apply primer as required (see Table I), before installing an approved back-up material.

Application: Apply Dow Corning 756 Silicone Building Sealant-H.P. and tool so all joint sides are wetted out. (Wet tooling of the sealant with liquid tooling aids is not recommended.) In cases where excess uncured sealant is inadvertently applied to adjacent surfaces, the sealant should be cleaned from surfaces before curing, using mineral spirits (follow solvent manufacturer's safe handling recommendations and local, state, and federal regulations regarding solvent usage).

Remove masking immediately after sealant application. Under low temperature and low humidity conditions, cure may be considerably longer.

Joint Design: A thin sealant bead will accommodate more movement than a thick bead. Recommended width-to-depth ratio is 2:1 where possible. Joint depth over backer rod should be 1/8"-1/2" and joint width from 1/4"-1". Dow Corning Technical Service should be consulted for joint applications outside published guidelines. In all cases, movement on the joint should not exceed ±50 percent of original joint dimension. For non-structural joint design recommendations, consult the Dow Corning Weatherproofing Sealant Guide, Form No. 62-433.

Safe Handling Information: PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED. BEFORE HANDLING, READ PRODUCT AND MATERIAL SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION. THE MATERIAL SAFETY DATA SHEET IS AVAILABLE FROM YOUR DOW CORNING REPRESENTATIVE, OR DISTRIBUTOR, OR BY WRITING TO DOW CORNING CUSTOMER SERVICE, OR BY CALLING 1-800-322-8723.

¹Teflon is a registered trademark of E.I. du Pont de Nemours & Co.

6. AVAILABILITY AND COST

Availability: *Dow Corning 756 Silicone Building Sealant-H.P.* is available through Dow Corning construction distributors nationwide.

Cost: Contact your local Dow Corning construction distributor. For the location nearest you, call 1-800-322-8723 or see list on the last page for the nearest Dow Corning sales office.

Patent Position: The processes of mixing the contents of the container of *Dow Corning 756 Silicone Building Sealant-H.P.* with the contents of the container of *Dow Corning 756 Additive*, depositing the resultant composition onto a substrate, allowing the resultant composition to cure, and obtaining a cured material is claimed in Dow Corning's U.S. Patent No. 5,357,025 and applying a protective coating to the cured material is claimed in U.S. Patent No. 5,338,574. Dow Corning intends to enforce those patents, but will offer licenses thereunder. If a license is needed, Dow Corning will ship the product in containers that bear a label license and the invoice will include a statement of the royalty due. Alternatively, upon written request, Dow Corning will offer a license agreement at a comparable

royalty rate under which the licensee may handle its own accounting of the royalties due, regardless of the source of material.

7. WARRANTY

Limited Warranty Information: Dow Corning believes that the information in this publication is an accurate description of the typical characteristics and/or uses of the product or products, but it is your responsibility to thoroughly test the product in your specific application to determine its performance, efficacy and safety. Suggestions of uses should not be taken as inducements to infringe any particular patent.

Unless Dow Corning provides you with a specific written warranty of fitness for a particular use, Dow Corning's sole warranty is that the product or products will meet Dow Corning's then current sales specifications. **DOW CORNING SPECIFICALLY DISCLAIMS ANY OTHER EXPRESS OR IMPLIED WARRANTY, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND OF FITNESS FOR USE.** Your exclusive remedy and Dow Corning's sole liability for breach of warranty is limited to refund of the purchase price or replacement of any

product shown to be other than as warranted, and Dow Corning expressly disclaims any liability for incidental or consequential damages.

A 20-year weatherseal limited warranty is available. Some testing may be required. Consult your Dow Corning Technical Service representative for details.

8. MAINTENANCE

If sealant becomes damaged, cut out and replace the damaged portion with *Dow Corning 756 Silicone Building Sealant-H.P.*

9. TECHNICAL SERVICES

Complete technical information and literature are available from Dow Corning and authorized construction distributors. Laboratory testing and technical services are available from Dow Corning.

10. FILING SYSTEMS

- Sweets Catalog 7920/DOW Buyline 2882

Architectural specifications and complete technical literature are available upon request. Contact Dow Corning for specific bulletins.

DOW CORNING NORTH AMERICA FIELD SALES OFFICES:

ATLANTA

1225 Northmeadow Parkway, Suite 104
Roswell, GA 30076
(770) 751-7979

CHICAGO

1120 West Lake-Cook Road, Suite 1120C
Buffalo Grove, IL 60089
(847) 541-3430

DETROIT

47799 Halyard Drive, Suite 77
Plymouth, MI 48170
(734) 454-2000

GREENSBORO

2914B Patterson Street
Greensboro, NC 27407
(336) 547-7272

LOS ANGELES

5 Corporate Park
Suite 280
Irvine, CA 92714
(949) 757-5000

NEW YORK CITY – METRO

500 International Drive, Suite 350
Mount Olive, NJ 07828
(973) 691-1414

SAN FRANCISCO

PO Box 5121
910 Auburn Court
Fremont, CA 94537-5121
(510) 490-9302

MIDLAND – CORPORATE HEADQUARTERS

Midland, MI 48686-0994
(517) 496-6000

CANADA

Dow Corning Canada, Inc.
6747 Campobello Road
Mississauga, Ontario L5N 2M1
(905) 826-9600

MEXICO

Dow Corning de Mexico S.A. de C.V.
Campos Eliseos 345-5 Piso
Col. Polanco
Delegacion Miguel Hidalgo
C.P. 11550 Mexico, D.F.
525 327 1300

DOW CORNING CONSTRUCTION TESTING LABORATORIES – U.S., CANADA AND CARIBBEAN:

ATLANTA

Dow Corning Corporation
1225 Northmeadow Parkway, Suite 104
Roswell, GA 30076
(770) 751-7979

MIDLAND

Dow Corning Corporation Test Lab
2200 West Salzburg Road
Auburn, MI 48611
(517) 496-6000

SAN FRANCISCO

Dow Corning Corporation
PO Box 5121
910 Auburn Court
Fremont, CA 94537-5121
(510) 490-9302

CUSTOMER SERVICE AND ORDER ENTRY INFORMATION:

CORPORATE HEADQUARTERS

Dow Corning Corporation
Midland, MI 48686-0994
(517) 496-6000

DOW CORNING WEB SITE:

www.dowcorning.com

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DOW CORNING

Dow Corning Corporation
Midland, Michigan 48686-0994