



Technical Data Sheet

DOWSIL™ 756 SMS Building Sealant

FEATURES

- Cures to form a unique sleek, 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 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, brick, granite and fluoropolymer painted substrates; primed adhesion to other common construction substrates, such as marble, limestone and concrete
- Excellent weatherability non-reverting silicone durability
- Compatible with open-cell polyurethane, closed-cell polyethylene and nongassing polyolefin backer rods

COMPOSITION

- One-part, pre-pigmented, neutral-cure sealant

Medium-modulus elastomeric sealant designed for weather-proofing sensitive porous stone and metal panel substrates. Its proprietary formulation produces a sleek finish, which reduces residue rundown or dirt pick up, substrate staining and adheres unprimed to porous and non-porous substrates.

APPLICATIONS

- DOWSIL™ 756 SMS Building Sealant 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. DOWSIL 756 SMS Building Sealant is intended to be applied in new and remedial construction.

TYPICAL PROPERTIES

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

Test ¹	Property	Unit	Result
As Supplied			
	Color		Adobe tan, white, precast white, limestone, gray, bronze, black, special and custom colors
ASTM C 679	Tack-Free Time, 50% RH	minutes	120
	Curing Time, 50% RH at 25°C (77°F)	days	7–14
ASTM C 639	Flow, Sag or Slump	inches (mm)	0.1 (2.54)
	Working Time	minutes	30
	VOC Content ² , Inclusive/Exclusive	g/L	66/66
As Cured – After 21 days at 25°C (77°F)			
ASTM D 2240	Durometer Hardness, Shore A	points	35
ASTM D 412	Ultimate Tensile Strength	psi (MPa)	200 (1.4)
ASTM D 412	Ultimate Elongation	percent	1200
ASTM C 1135	Tensile Adhesion, Ultimate	psi (MPa)	80 (0.6)
ASTM C 794	Peel Strength, Unprimed to Glass, Fluoropolymer Coatings and Brick	ppi (kN/m)	> 25 (4.38)
ASTM C 1248	Staining/Migration, White Marble		None
ASTM C 719	Joint Movement Capability, Glass, Other	percent	± 50

¹ASTM: American Society for Testing and Materials.

²Based on South Coast Air Quality Management District of California. Maximum VOC is listed both inclusive and exclusive of water and exempt compounds.

DESCRIPTION

DOWSIL 756 SMS Building Sealant is a medium-modulus elastomeric sealant specifically designed for weatherproofing sensitive porous stone and metal panel substrates. Its proprietary formulation produces a sleek finish, which reduces to reduce residue rundown, and substrate staining and adheres unprimed to porous and non-porous substrates.

DOWSIL 756 SMS Building Sealant 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.



DOWSIL 756 SMS Building Sealant meets the following standards:

- ASTM Specification C 920, Type S, Grade NS, Class 50, Use NT, G, M, A and O
- ASTM Specification C 719 ± 50% movement

HOW TO USE

Preparatory Work

The application surface must be clean, dry, sound and frost-free. Field adhesion testing is recommended to determine if primer will be required on your specific substrates as substrates are variable and general recommendations are based on laboratory tests. Dow Construction lab services can assist you with this and compatibility determinations. If primer is required mask adjacent surfaces and apply it (refer to Americas Technical Manual Form No. 62-1112), before installing an approved back-up material.

Application

Apply DOWSIL 756 SMS Building Sealant 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 or tooled onto 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

Please consult the Dow Americas Technical Manual, Form No. 62-1112, for detailed information on state-of-the-art application methods and joint design. Please contact your local Sales Application Engineer for specific advice. A thin sealant bead will accommodate more movement than a thick bead. Recommended width-to-depth ratio is 2:1 where possible. In all cases, movement of the joint should not exceed ± 50 percent of the original joint dimension.

Maintenance

If sealant becomes damaged cut out and replace the damaged portion with DOWSIL 756 SMS Building Sealant.

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.CONSUMER.DOW.COM, OR FROM YOUR DOW SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CUSTOMER SERVICE.

USABLE LIFE AND STORAGE

When stored below 27°C (80°F), DOWSIL 756 SMS Building Sealant has a shelf life of 12 months from date of manufacture. Refer to product packaging for "Use By" date

PACKAGING INFORMATION

Pre-pigmented DOWSIL 756 SMS Building Sealant is supplied in 20 oz (591 ml) sausages and 2 gallon (7.6 liter) pails.

UNRESTRICTED – May be shared with anyone

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DOWSIL™ 756 SMS Building Sealant

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LIMITATIONS

This product is not intended for use:

- In structural glazing applications or where the sealant is intended as an adhesive
- 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
- In below-grade applications
- On substrates with high levels of iron contamination

Some limestones and other porous stone substrates that contain iron interact with DOWSIL 756 SMS Building Sealant causing discoloration of the sealant and/or substrate. Prior to use, DOWSIL 756 SMS Building Sealant should be tested for compatibility with these substrates using water immersion.

DOWSIL 756 SMS Building Sealant will not improve pre-existing staining or residue rundown dirt pick up 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.

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.

COLORS

Dow offers sealants in standard, special and custom colors to meet your building project needs. DOWSIL 756 SMS Building Sealant is available in sausages in 7 standard and over 50 special colors. Custom Color services are available upon request. Custom and Special colors require different minimum order quantities. Contact your nearest authorized Dow distributor for further details on our different color programs or contact Dow.

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.

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