DOWSIL™ 756 SM Building Sealant

Description

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.

Uses / Applications

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

Benefits

- One-part, pre-pigmented, neutral-cure sealant.
- None staining of porous substrates, white marble.
- Cures to form a distinct 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 no gassing polyolefin backer rods.

Physical Properties

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

Reference	Property	Result	Unit	Comments
	Color	White, precast white, limestone, gray, bronze, black, special, and custom colors		Multi
ASTM[1] C679	Tack free time (TFT)	120	min	
	Curing time, 50% RH at 25°C (77°F)	7-14	Days	
EPA Method 24	VOC	22	g/L	
ASTM C639	Flow/slump	0.1	Inches	
	Cure test conditions, 21d 25C/50% RH			
ASTM C661	Durometer	30	Shore A	

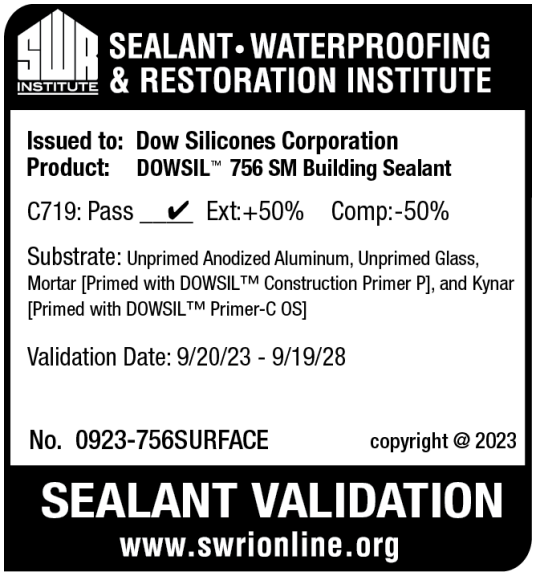
[1]ASTM: American Society for Testing and Materials

Form No. 63-7411-01-0624 S2D

Physical Properties (Cont.)

Reference	Property	Result	Unit	Comments
ASTM D412	Ultimate tensile strength	200	PSI	
ASTM D412	Ultimate elongation	1100	%	
ASTM C1135	Tensile adhesion	65	PSI	
ASTM C719	Movement capability, glass/other	+/- 50	%	
ASTM C920	ASTM C920	Type S,Grade NS, Class 50		
ASTM C794	Adhesion peel strength	> 25	PLI	
ASTM C1248	Staining, white marble	None		

Certifications



Processing and Application Guidelines

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 SM 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.

Processing and Application Guidelines (Cont.)

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

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 SM Building Sealant causing discoloration of the sealant and/or substrate. Prior to use, DOWSIL™ 756 SM Building Sealant should be tested for compatibility with these substrates using water immersion.

DOWSIL™ 756 SM 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, dow.com or consult your local Dow representative.

Disposal Considerations

Dispose in accordance with all local, state (provincial) and federal regulations. Empty containers may contain hazardous residues. This material and its container must be disposed in a safe and legal manner.
It is the user's responsibility to verify that treatment and disposal procedures comply with local, state (provincial) and federal regulations. Contact your Dow Technical Representative for more information.

Product Stewardship

Dow has a fundamental concern for all who make, distribute, and use its products, and for the environment in which we live. This concern is the basis for our product stewardship philosophy by which we assess the safety, health, and environmental information on our products and then take appropriate steps to protect employee and public health and our environment. The success of our product stewardship program rests with each and every individual involved with Dow products - from the initial concept and research, to manufacture, use, sale, disposal, and recycle of each product.

Customer Notice

Dow strongly encourages its customers to review both their manufacturing processes and their applications of Dow products from the standpoint of human health and environmental quality to ensure that Dow products are not used in ways for which they are not intended or tested. Dow personnel are available to answer your questions and to provide reasonable technical support. Dow product literature, including safety data sheets, should be consulted prior to use of Dow products. Current safety data sheets are available from Dow.

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