



Technical Data Sheet

DOWSIL™ General Purpose Silicone Sealant

General application acetoxysilicone sealant

Features & Benefits

- One-part room temperature cured silicone sealant
- Good flexibility after cured
- Good adhesion to glass and ceramic materials

Applications

DOWSIL™ General Purpose Silicone Sealant is a general application acetoxysilicone sealant, designed for:

- Window and door glass filling and sealing
- Glass to glass adhesion and sealing
- Ceramic materials adhesion and sealing
- General industrial sealing and bonding application

Typical Properties

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

Test ¹	Property	Unit	Result	
	Color		Bronze, aluminum	Clear, white, black
	Uncured – 23°C, 50% R.H.			
GB/T13477.6-2002	Flow	mm	< 3	< 3
GB/T13477.5-2002	Tack-free time	min	11	9.5
GB/T13477.4-2002	Extrusion rate ²	g/cm ³	501.4	273
	Cured 7 days – 23°C, 50% R.H.			
ASTM D2240	Hardness	Shore A	15	32
ASTM D412	Tensile strength	mPa	0.99	2.35
ASTM D412	Elongation at break	%	573	380

1. GB: National Standard.
ASTM: American Society for Testing and Materials
2. Extrusion rate: Test 3.2 mm caliber under 0.62 MPa.

Description

DOWSIL™ General Purpose Silicone Sealant is a one-part general application acetoxysilicone sealant, with good adhesion to glass and ceramic materials, and good flexibility after cured.

How to Use

Preparation

Remove all residual dirt, residual and old sealant thoroughly. Wipe off grease and dirt on the surface with a piece of white cloth with solvent, then wipe immediately with another piece of clean cloth, so as to remove the residual solvent and dirt on the surface.

Masking

Masking will ensure a clean, neat appearance and reduce clean up by protecting surrounding areas from excess sealant.

Applying

Cut the nozzle at 45° and screw onto cartridge, and place it into caulking gun. Air-operated or hand-operated caulking guns can be used. Apply sealant into the base of the joint so that it completely fills the joint, wetting both sides. Do not simply lay a bead on the surface as the sealant will not penetrate the joint under its own weight.

Tooling

Tool the surface of the joint immediately after sealant application to provide a smooth even finish and to ensure the sealant wets the sides of the joint. A tool with a convex profile is recommended to keep the sealant within the joint. Do not use soap or water as tooling aids. After a skin has formed, do not disturb the joint for 48 hours.

Handling Precautions

Test it before use. The user is responsible to conduct property test before using to confirm the sealant produces satisfied results. Especially for the surface which is difficult to adhesion and coated substrates, the cohesiveness should be tested.

Be careful the application temperature. When the substrates surface is over than 50°C, it is easy to cause fast-cure or bubbles. When the substrates temperature is lower than 5°C, it is easy to slow-cure. And also, a layer of indiscernible fog is formed on the surface of substrates, which affects the cohesive, so it should be wiped with a piece of dry cloth or heat blow drier. Keep environment well-ventilated and avoid inhaling too much volatile gas generated during cure.

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.

Usable Life and Storage

Stored properly in a dry and well-ventilated place below 30°C. Usable life is 27 months in original package. More information refer to package.

Packaging Information

- 300 ml cartridge, 24 cartridges per carton

Limitations

If you need advanced sealant used for curtain wall construction, please contact your local representative. This product is not suitable for the following purposes:

- Curtain wall glazing
- Continuous water immersion
- Materials that bleed plasticizers or solvents or release by-products that may inhibit its cure, affect adhesion or discolor the sealant
- Unventilated places

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.

dow.com

NOTICE: No freedom from infringement of any patent owned by Dow or others is to be inferred. Because use conditions and applicable laws may differ from one location to another and may change with time, Customer is responsible for determining whether products and the information in this document are appropriate for Customer's use and for ensuring that Customer's workplace and disposal practices are in compliance with applicable laws and other government enactments. The product shown in this literature may not be available for sale and/or available in all geographies where Dow is represented. The claims made may not have been approved for use in all countries. Dow assumes no obligation or liability for the information in this document. References to "Dow" or the "Company" mean the Dow legal entity selling the products to Customer unless otherwise expressly noted. NO WARRANTIES ARE GIVEN; ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED.

