



Technical Data Sheet

DOWSIL™ General Purpose Silicone Sealant

General Application Acetoxy Silicone 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 acetoxy silicone sealant, designed for:

- Window and door glass filling and sealing
- Glass to glass adhesion and sealing
- Ceramic materials adhesion and sealing

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 acetoxy 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.

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Usable Life And Storage

Stored properly in a dry and well-ventilated place below 30°C. Usable life is 24 months in original package. More information refer to package.

Packaging Information

- 300 ml cartridge, 24 cartridges per carton

UNRESTRICTED – May be shared with anyone

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DOWSIL™ General Purpose Silicone Sealant

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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, www.consumer.dow.com or consult your local Dow representative.

<http://www.consumer.dow.com>

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