

DOW CORNING®

Glass Sealant

DESCRIPTION

DOW CORNING® Glass Sealant is a fast curing high performance, acetic cure silicone sealant for Professional Trade application. It adheres to glass, ceramic, fiberglass, aluminum and many other non-porous building materials. It may be used to glaze and waterproof for •Windows •Doors •Shopfronts •Internal fixture and fittings •Skylights

TYPICAL PROPERTIES

NOTE: These values are not intended for use in preparing specifications. Please contact your local Dow Corning sales office or your Global Dow Corning Connection before writing specifications on this product.

Property	Unit	Value
Available Colors:		Aluminum, Black, Bronze, Clear, Gray, White
As supplied – tested at 25°C, 50% relative humidity		
Flow, Sag or Slump	mm	<2
Tack Free Time*	min	11
In-depth Cure for 1 day*	mm	1.9
As Cured – tested after 7 days at 25°C, 50% relative humidity		
Durometer Hardness(Shore A)		29
Ultimate Tensile Strength	MPa	1.8
Ultimate Elongation	%	400
Temperature Stability	°C	-40 to +150
*Sealant cure rate and working time will vary with temperature and humidity. Higher temperature & humidity equals faster. Lower temperature & humidity equals slower. Where an architectural grade silicone sealant is required please consult Dow Corning.		



SIX STEPS TO SURE SEALING

Step 1 CORRECT JOINT DESIGN:

Correct joint design minimizes stresses on the sealant, enables optimum sealant movement capability, facilitates sealant application and minimizes the potential for sealant splitting and voiding by enabling cure by-products to exit from the joint.

Guidelines are:

1. Minimum joint width of 6mm
2. Minimum joints depth of 6mm
3. For larger joints the width of the joint should be greater than the sealant depth
4. Avoid 3 sided adhesion: Apply backer rod or bond breaker tape in the base of the joint to ensure the sealant is only bonded to the sides of the joint and is free to move

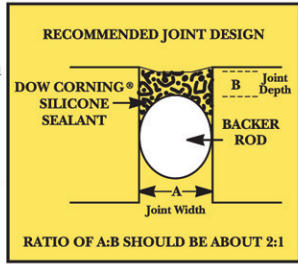


Figure 1.

to its full capacity under joint movement (Refer Figure 1).

Step 2 CLEAN ALL JOINT SURFACES:

Substrate surfaces must be completely clean, dry and sound. Completely remove any loose debris and/or ole sealant.

Step 3 INSTALL BACKING MATERIAL:

Backer rod (eg. Closed cell polyethylene type or open cell polyurethane foam type) or similar material (eg. Low tack polyethylene tape for shallow joints) can be used in the base of the joint to control sealant depth and avoid 3 sided adhesion by prevention adhesion to the base of the joint.

Step 4 MASK ADJACENT SURFACES WITH MASKING TAPE:

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

Step 5 APPLYING SEALANT:

- ◆ Cut tip off the cartridge.
- ◆ Cut nozzle at 45° angle to the desired shape and size.
- ◆ Screw nozzle onto cartridge.
- ◆ Place cartridge in 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.

Step 6 TOOL JOINT AND REMOVE MASKING TAPE:

- ◆ 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.
- ◆ Tooling should be completed in one continuous stroke before the sealant forms a skin (ie: within the working time). A tool with a convex profile is recommended to keep the sealant within the joint. When sealing horizontal joints tool the sealant to that any liquids (eg. rain water, cleaning solutions) do not collect and pool on top of the sealant.
- ◆ Do not use soap or water as tooling aids. Remove masking tape immediately after tooling and before the sealant skins.
- ◆ After a skin has formed, do not disturb the joint for 48 hours.
- ◆ Avoid contact with various cleaning agents or solvents (eg. Bleach) whilst sealant is curing.
- ◆ Uncured sealant can best be cleaned from tools using commercial solvents such as xylene, toluene or methyl ethyl ketone. Mineral turpentine will suffice if available. Observe proper precautions when using flammable solvents. On porous surfaces allow sealant to cure before removing by abrasion. Cured sealant is not soluble and must be trimmed with a blade, avoid undercutting the seal.
- ◆ Sealant releases acetic acid (vinegar-like odour) during cure. Once cured this odour disappears. Fully cured sealant is not hazardous.

USAGE RATE TABLE

The table below provides a guide to the linear metres per cartridge for various joint sizes.

NOTE: actual sealant usage will vary depending on such factors as joint geometry, backer rod placement, tooling and wastage at the job site.

JOINT DEPTH (mm)	JOINT WIDTH (mm)						
	6	8	10	12	15	20	25
6	8.3	6.2	5.0	4.1	3.3	2.5	2.0
8	N/O	4.6	3.7	3.2	2.5	1.8	1.5
10	N/O	N/O	3.0	2.5	2.0	1.5	1.2
12	N/O	N/O	N/O	2.0	1.6	1.2	1.0

LIMITATION

- Do not use for structural glazing.
- Not recommended for continuous water immersion applications.
- Not recommended for use with marble and similar highly porous stone finishes where sealant may affect their appearance.
- Acetoxy Sealant is not recommended for use on materials where the cure by-product (acetic acid vapor) may cause corrosion, discoloration or where the sealant may affect their appearance (eg. galvanized iron, copper, brass, zinc-coated steel and other metals, concrete, cement, brick, limestone, marble and similar highly porous stone finishes).
- Oxime Sealant may discolour copper and brass.
- Not recommended for joints where movement exceeds ±15%.
- Not recommended for use in below ground joints or trafficable joints where abrasion and physical abuse are encountered.
- Not recommended for use in the construction or sealing of aquariums.
- Cannot be painted as paint will not adhere to sealant.
- Acetoxy Sealant is not recommended for use on plastic sheeting. Oxime Sealant is not recommended for use on polycarbonate and acryl plastic sheeting, suitability for use on other types of plastic should be tested prior to application.
- Not for use on freshly painted surfaces (enamel or solvent containing types) .
- Should not be applied to materials that bleed plasticizers or solvents or release by-products that may inhibit its cure, affect adhesion or discolor the sealant (eg. bituminous based adhesives and coatings).
- Do not clean or treat the sealant with materials, solvents or cleaning agents that may affect or discolor the sealant, particularly during sealant cure.
- Do not apply at temperatures below -10°C or when substrate surface temperatures exceed +50°C.
- Should not be used as an interior penetration firestop sealing system.
- Should not be applied to surfaces in direct contact with food or drinking water. This sealant has not been tested to determine status under U.S. Food and Drug Administration regulations.
- Not recommended for direct contact on the reflective coatings on mirrors.
- Polyester powder coat paint exhibits a highly variable wax content on the surface. Ensure thorough solvent cleaning.
- Sealant cures by contact with moisture vapor in the air. Not recommended for use in closed or confined areas where sealant cure may be inhibited by lack of air.
- Not for medical or pharmaceutical use.
- Do not use in the manufacture of Insulated Glass (IG) Units.
- All organically extended silicone sealants exhibit higher shrinkage than 100% silicone sealants.

DOW CORNING OFFICES

DOW CORNING SINGAPORE PTE LTD.
Singapore Office Tel: +65 6 253 6611
Indonesia Office Tel: +62 21 230 3255
Vietnam Office Tel: +84 8 910 3388

DOW CORNING (THAILAND) LTD.
Bangkok Office Tel: +662 634 6700

DOW CORNING INDIA PRIVATE LIMITED
Mumbai Office Tel: +91 22 6694 6868

DOW CORNING KOREA
Seoul Office Tel: +82 2 6411 7600

DOW CORNING TORAY CO., LTD
Tokyo Office Tel: +81 3 3287 8300

Dow Corning (China) Holding Co., Ltd.
Tel: +86 21 3899 5500

Dow Corning Asia
Hong Kong Office
Tel: +852 2835 0350

Dow Corning Taiwan Inc.
Tel: +886 2 6600 3100

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 Corning'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.

DOW CORNING SPECIFICALLY DISCLAIMS ANY OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY. DOW CORNING DISCLAIMS LIABILITY FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES.

Dow Corning® is a registered trademark of Dow Corning Corporation. **WE HELP YOU INVENT THE FUTURE™** is a trademark of Dow Corning Corporation. ©2011 Dow Corning Corporation. All rights reserved. AV16549, AV16547, AV16559, AV16551, AV16556(Cover) Form Number 95-737-01

DOW CORNING

We help you invent the future.™

