



Technical Data Sheet

DOWSIL™ Green Multiple Purpose Silicone Sealant

Features & Benefits

- One-part, room temperature, neutral cure, 100% silicone
- Conforms to GB 18583-2008, low VOC, low odor
- Conforms to GB/T 14683-2017, low modulus, high elasticity, resistant to UV
- Good adhesion to a broad of building materials, such as enameled pressed steel, glass, wood, concrete, aluminum, PVC and other most porous and non porous substrates
- Meets CNCA-CGP-13:2020 and CTC-TVe-OP03001 three stars, The Implementation Rules for Green Building Materials Product Classification Certification of Building sealants.
- Meets CNCA-CGP-08:2021 The Implementation Rules for Green Building Materials Product Classification Certification
- Meets AS/NZS 4020:2018 Testing of Products for Use in Contact with Drinking Water



Applications

- DOWSIL™ Green Multiple Purpose Silicone Sealant is a high performance neutral cure silicone sealant. It can be widely used for sealing in cabinet, footline, partition, gaps in balcony and other indoor decoration applications. Also, it can be used for sealing in general industrial applications.

Typical Properties

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

Test	Property	Unit	Result	
	Color		Black, white, gray	Translucent, bright black, bright white
As supplied – test as 23°C & 50% RH				
GB/T 13477.6-2002	Flow, sag, slump	mm	<= 3	<= 3
GB/T 13477.5-2002	Tack free time	minutes	35	15
ASTM C603	Extrusion rate	gram/min	267	257
As cured – after 7 days at 23°C & 50% RH				
ASTM D412	Tensile strength	MPa	1.80	1.20
ASTM D412	Elongation	%	668	464

1. GB: National standard in China.
ASTM: American Society for Testing and Materials.

How to Use

Surface Preparation

The surface of the substrate should be sufficiently clean, dry, flat and free of foreign matter. Completely remove any existing sealant. For non porous surfaces such as glass and coated aluminum extrusion, remove any grease, oil or dust using a clean cotton cloth and a solvent such as ketone, ethyl carbinol or 75% alcohol. With a dry cloth, remove any residual solvent or dust.

Use of Primer

Adhesion test on substrates prior to general use is always recommended. For specific advice, please contact one of Dow's regional service centers for technical assistance.

Back-up Materials

At the bottom of the joint, use backer rod (e.g. closed-cell type polyethylene or open-cell polyurethane foams) or equivalent material (e.g. low-viscosity polyethylene tape) to control the depth of sealant. Avoid 3-sided adhesion by preventing the sealant from adhering to the bottom of the joint.

Masking and Tooling

Masking tape can be used in the area adjacent to the joint to ensure a neat sealant line, preventing the surrounding surplus sealant from contaminating the substrate surface.

- Tool the joint surface as soon as the sealant is applied, keeping the surface smooth and flat, and ensuring that the edge of the joint is full of sealant.
- Complete the tooling before the sealant skin forms (e.g. in working time). Convex-surface tools are recommended for tooling to allow the joint to remain full of sealant. Tooling must be performed when sealing the horizontal joint to prevent any liquid (e.g. rainwater and cleaner) from staying on the sealant surface.
- Do not use soap or water as tooling assistants.
- After the tooling and before the sealant cures, remove masking tape.
- Do not touch the surface of the sealant within the 48 hours following its cure. Avoid sealant contact with cleaner or solvent (e.g. bleaching agent) during this period.
- When a flammable solvent is used, proper precautions should be applied. For porous material surfaces, allow the sealant to cure completely before removing the masking tape. Cured sealant can be removed with a knife.
- The sealant releases gas during curing; the odor disappears after it is cured. The completely cured sealant is harmless.

Sealant Filling

Cut the nozzle at an angle of 45° depending on the shape and specification needed. Tighten the nozzle onto the sealant tube. Put the sealant tube into the cartridge gun. Use pneumatic or manual cartridge gun. Apply sealant to the bottom of the joint to fill the joint completely and to ensure adhesion to both sides of the joint. Do not apply the sealant simply on the surface as the sealant cannot fully fill the joint by gravity.

Joint Design

Proper joint design can reduce the stress on the sealant and help obtain optimal sealant movement capability, improve the ease of application, reduce cohesive failure, and minimize the effects of curing byproducts.

- Minimum joint width and joint depth: 6 mm.
- For larger joints, the width of the joint shall be larger than the depth of sealant.

To avoid 3-sided adhesion, backer rod or non-adhesion tape should be used at the bottom of the joint to ensure that the sealant is only adhering to the edge of the joint and to ensure flexible movement in the joint.

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.

Usable Life and Storage

When stored at or below 30°C in original unopened containers, this product has a usable life of 12 months from the date of production.

Packaging Information

This sealant is supplied in 300 ml cartridges, 24 cartridges per carton. Please contact your local Dow sales office for related information.

Limitations

This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

This product is not suitable for following purposes:

- Aquarium
- For submerged application, please contact Dow for proper joint preparation and testing recommendation
- Food contact applications
- Totally confined space
- Structural glazing or insulated glazing
- The joints where physical abuse or abrasion are likely to occur
- Cannot be painted, as paint will not adhere to sealant
- Materials that bleed plasticizers or solvents or release by-products that may inhibit its cure, affect adhesion or discolor the sealant

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

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