DOWSIL™ 250 Polysulfide Insulating Glass Sealant

Description

Two-part polysulfide sealant for use as a secondary seal in insulating glass units for commercial and residential use.

Uses / Applications

Sealant for secondary sealing of insulating glass units, double or triple glazed IG designs with wide variety of spacers.

Benefits

- Excellent performance: Very low gas and water vapor permeability
- Good adhesion to glass and various warm edge and standard spacers
- Excellent workability and ease of use, high mixing tolerance ratio
- Excellent primerless adhesion to most common substrates like glass, aluminium and stainless-steel
- Tested according to EN 1279 2, 3 and 4 and UNI
- Low VOC
- Compatible with all DOWSIL™ facade silicones and DOWSIL™ Butyl sealants

Physical Properties

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

Reference[2]	Property	Result	Unit
	Physical form of component A	Paste	
	Specific gravity of component A	1.82	
	Physical form of component B	Paste	
	Specific gravity of component B	1.66	
	Color of mixture	Black	
	Consistency of mixture	Solid compound, non-slump	
	Acceptable mix ratio range, by volume	10:1	
	Equivalent mix ratio, by weight	10:0.92	
	Mixing tolerance of component B	±20	%
CTM 0092A	Pot Life	40 – 60	min
	Hardness mixture (A+B) after 24h at 23°C	≥40	Shore A
EN 1279-4, Annex A	Adhesion to float glass (σc)	0.39	MPa
EN 1279-4	Moisture vapor transmission rate	5.9	g/m²/24hr
EN 1279-4	Gas transmission rate	0.081	g/m²/24hr
EN 1279-4, Annex H	VOC	< 0.7	%

[2] CTM: Corporate Test Method; copies of CTMs are available on request.
EN: European Norm

Certifications

DOWSIL™ 250 Polysulfide Insulating Glass Sealant is a secondary seal for gas-filled insulating glass (IG) units and meets the requirements according to EN 1279 part 2, 3 and 4; furthermore, it is UNI-listed in Italy and has RAL GZ-520/2 quality label for Germany. It is suitable for gas-filled triple and double-glazed IGUs. As valid for any other technology, a proper application of the polysulfide and fabrication of the insulating glass unit is required. Please contact Dow technical service specialists for additional information.

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Processing and Application Guidelines

DOWSIL™ 250 Polysulfide Insulating Glass Sealant should be mixed in a ratio of 10:0.92 base to curing agent by weight, or equivalent 10:1 by volume for optimal properties. At this mix ratio, the sealant typically exhibits a working time of 40–60 minutes. Slight variations in mixing ratio can be tolerated, but these should not exceed by 20% with the quantity of catalyst to ensure minimum properties are obtained. Application surface must be clean, dry and free from fatty residue. The sealant is compatible with most PIB primary sealants in the market. Please contact our technical services department for more information. To obtain the ultimate physical properties from DOWSIL™ 250 Polysulfide Insulating Glass Sealant, it is recommended that the base and curing agent are thoroughly mixed using an airless mixing system found on most existing commercially available two-part dispensing machines.

Equipment Cleaning

When not being used it is recommended that the dispensing equipment be purged with the uncatalyzed base.

Technical Service

Dow offers comprehensive technical service as part of customer support to help ensure the exceptional performance of your insulated glass design. This includes dispensing equipment recommendations, as well as sealant compatibility testing with all your chosen insulated glass unit components. For structural glazing applications, special unit design should be reviewed on a project basis by Dow technical service staff.

Consult Dow Technical Services department for further advice on specific applications:
EHS inquiries: europe.ehs@dow.com
Reach inquiries: reachsupport@dow.com

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 between +10°C to +30°C, DOWSIL™ 250 Polysulfide Insulating Glass Sealant is ready to use. DOWSIL™ 250 Polysulfide Insulating Glass Sealant has a shelf life of 9 months from date of production provided it is properly stored in its original packaging. Please contact Dow technical service specialists for additional information.

Packaging Information

DOWSIL™ 250 Polysulfide Insulating Glass Sealant Base (Part A) is available in 191 Liters steel drums.
DOWSIL™ 250 Polysulfide Insulating Glass Sealant Catalyst (Part B) is available in 19 Liters steel pails.
Smaller units are available upon request.

Limitations

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.

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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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