Technical Data Sheet

DOWSIL™ 3363 Insulating Glass Sealant

Description

Two-part silicone sealant with high modulus for use as a secondary seal in insulating glass units.

This data sheet is for China made DOWSIL™ 3363 Insulating Glass Sealant only.

Sustainability Attribute:

Decarbia™
Advancing carbon neutrality with DOW

Uses / Applications

- DOWSIL™ 3363 Insulating Glass Sealant is ideal as a secondary sealant for triple and double glazed units and suitable for gas-filled IG glazed.
- DOWSIL™ 3363 Insulating Glass Sealant can be used in IG applications for structurally glazed facades. It is UV resistant, provides long-term durability and excellent adhesion to glass and IG spacers.

Benefits

- Suitable for glass-filled triple glazed units and gas-filled double glazed units
- Structural capability as secondary sealant for insulating glass in structural glazing applications
- Meet GB24266-2009, ETAG002 and EN1279-4
- High strength, fast curing time
- Outstanding resistance to ozone and ultraviolet (UV) radiation
- Excellent stability through wide temperature range: -50°C to 150°C (fully cured)
- High modulus with limits the stress on the primary sealant and makes it particularly suited for gas-filled insulating glass units

Typical Properties

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

Test	Property	Unit	Result
	Base – as supplied		
	Color and consistency		White, viscous paste
CTM[1] 0097	Specific gravity	g/cm^3	1.38
	Catalyst – as supplied		
	Color and consistency		Black/grey, viscous paste
CTM 0097	Specific gravity	g/cm^3	1.06/1.05

1. CTMs(Corporate Test Methods) correspond to standard. Copies of CTMs are available upon request.

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Typical Properties (Cont.)

Test	Property	Unit	Result
	As mixed		
	Color and consistency		Black/grey, non-slump paste
	Working time (25°C, 50% R.H.)	minutes	10–15
	Snap time (25°C, 50% R.H.)	minutes	20–60
CTM 0097	Specific gravity	g/cm^3	1.33
ASTM[2] D2202	Flow/sag (slump)	mm	< 3
ASTM C661	Durometer hardness, Shore A	points	50
GB/T[3] 13477.8	Tensile strength, ultimate	MPa (psi)	1.2 (174)
ETAG[4] 002	Design stress in tension	MPa	0.14
ETAG 002	Design stress in dynamic shear	MPa	0.10
ETAG 002	Elastic modulus	MPa	2.21
EN[5] 1279-4	Water vapor permeability (2.0 mm film)	g/m^2/24h	20
EN 1279-4	Gas permeability	g/(m^{2}h)	1.07

2. ASTM: American Society for Testing and Materials.
3. GB/T: China National Recommended Standard.
4. ETAG: European Organization for Technical Approval.
5. EN: European Norm.

Description

DOWSIL™ 3363 Insulating Glass Sealant is a two-part neutral curing silicone formulation for insulating glass application. As supplied, the base is a smooth, white paste and the curing agent is a viscous paste available in black or grey.

DOWSIL™ 3363 Insulating Glass Sealant meets requirements according to GB24266-2009, ETAG002 and EN1279-4.

How to Use

DOWSIL™ 3363 Insulating Glass Sealant should be mixed in a ratio of 10:1 base to curing agent by weight. At this mix ratio, the sealant typically exhibits a working time of 10–15 minutes. Slight variations in mixing ratio can be tolerated, but these should not exceed 9:1 to 12:1 by weight to ensure minimum properties are obtained.

The sealant is compatible with most of DOWSIL™ neutral curing sealants. Please contact our technical services department for more information.

To achieve the best mechanical properties of DOWSIL™ 3363 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 silicone dispersing machines.

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, DOWSIL™ 3363 Insulating Glass Sealant Curing Agent has a usable life of 12 months from the date of production.

When stored at or below 30°C, DOWSIL™ 3363 Insulating Glass Sealant Base has a usable life of 12 months from the date of production.

Packaging Information

Lot matching of base and curing agent is not required. DOWSIL™ 3363 Insulating Glass Sealant Base is available in 250 kg drums. DOWSIL™ 3363 Insulating Glass Sealant Curing Agent is available in 20 kg pails.

Limitations

The sealant cannot be used for structural glazing of glass units onto a metal frame. DOWSIL™ 993N Structural Glazing Sealant is the recommended product for that application. Please contact Dow to get the proper glazing recommendations when using coated glass.

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.

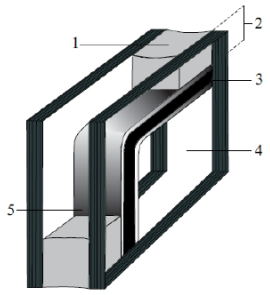

Figure 1: Typical section of a dual sealed insulating glass unit.

Legend
1. Secondary seal (DOWSIL™ 3363 Insulating Glass Sealant)
2. Secondary sealant – sealant depth
3. Primary seal – Polyisobutylene
4. Glass
5. Spacer