

DOW CORNING® 3362 Insulating Glass Sealant

FEATURES

- When used correctly, manufactured dual sealed insulating glass units meet EN1279, BS5713, DIN 1286 and CEKAL requirements
- Outstanding adhesion to a wide range of substrates including coated and reflective glasses, aluminum and steel spacers, and a variety of plastics
- Structural capability as secondary sealant for insulating glass units used in structural glazing
- CE Marked according to ETAG 002 (ETA 03-0014) meets sealant requirements according to EN 1279 parts 4 and 6 and prEN13022
- Low water absorption
- Excellent temperature stability: -50°C (-58°F) to 150°C (302°F)
- High level of mechanical properties – high modulus
- Odorless and non-corrosive cure
- Fast curing time
- Outstanding resistant to ozone and ultra-violet (UV) radiation
- Stable viscosity for A & B components, no heating required

Two-part silicone sealant for use as secondary sealant in insulating glass units

APPLICATIONS

- DOW CORNING 3362 Insulating Glass Sealant is intended for use as a secondary sealant in a dual sealed insulating glass unit.
- The high performance features incorporated into this product make it specially suitable for the following applications:
 - Insulating glass units for residential and commercial use.
 - Insulating glass units with high levels of UV exposure (free edge, green house, etc.).
 - Insulating glass units incorporating specialty glass types.
 - Insulating glass units where high heat or humidity may be encountered.
 - Insulating glass in cold climates.
 - Insulating glass units used in structural glazing.

TYPICAL PROPERTIES

Specification writers: These values are not intended for use in preparing specifications. Please contact your local Dow Corning sales representative prior to writing specifications on this product.

Test Method ¹	Property	Unit	Value
	Base: as supplied		
	Color and consistency		Viscous gray paste
	Specific gravity		1.34
	Viscosity (100s ⁻¹)	mPa.s	160,000
	Curing agent: as supplied		
	Color and consistency		
	-HV		Black paste
	-HV/GER		Thick black paste
	Specific gravity		0.90
	Viscosity (100s ⁻¹)	mPa.s	
	Standard		1000
	-HV		10,000
	-HV/GER		100,000
ASTM D93	Flash point - closed cup	°C	27
		°F	80.6
ASTM D92	Flash point - open cup	°C	76
DIN 51376		°F	168.8

TYPICAL PROPERTIES (continued)

Test Method ¹	Property	Unit	Value
As mixed			
	Color and consistency		Black non-slump paste
	Working time (25°C/77°F, 50% R.H.)	minutes	5 to 10
	Tack-free time (25°C/77°F, 50% R.H.)	minutes	90 to 120
	Specific gravity		1.30
	Viscosity (100s ⁻¹)	mPa.s	34,000
	Corrosiveness		Non-corrosive
As cured - after 7 days at 25°C (77°F) and 50% RH			
ASTM D0412	Tensile strength	MPa	1.8
ASTM D624	Tear strength	kN/m	6.0
ASTM D0412	Elongation at break	%	400
ASTM D2240	Durometer hardness, Shore A		35
ETAG 002	Design stress in tension	MPa	0.14
	Design stress in dynamic shear	MPa	0.11
	Elastic modulus in tension or compression	MPa	2.4
EN1279-4	Water vapor permeability (2.0mm film)	g/m ² /d	24.6
DIN 52612	Thermal conductivity	W/(m.K)	0.27

1. ASTM: American Society for Testing and Materials.
DIN: Deutsche Industrie Norm.

DESCRIPTION

DOW CORNING 3362 Sealant is a two-component neutral curing silicone sealant specifically developed for the manufacture of high performance dual-sealed insulated glass units.

Neutral alkoxy; cures at room temperature giving off a small amount of alcohol.

TECHNICAL SPECIFICATIONS AND STANDARDS

The performance of DOW CORNING 3362 Sealant has been positively assessed according to European standards for residential and structural insulating glass: EN1279 prEN13022 and ETAG 002.

- DOW CORNING 3362 Sealant is CE marked under ETAG 002 (ETA 03/0014) as secondary seal for structural and non structural insulating glass units.
- DOW CORNING 3362 Sealant fulfils the requirements of EN1279 part 4 and 6.

DOW CORNING 3362 Sealant has been extensively tested under different type of coated glass and conditions (air permeability, gas, etc.)

For further information please contact our Technical services department.

Dual-sealed units made with DOW CORNING 3362 Sealant successfully pass the 128 cycles from -15°C (5°F) to 55°C (131°F) at 98% RH as specified for the CEKAL certification.

The product has been successfully evaluated by CEBTP for 5000 hours UV resistance according to NF85516.

ATG approval 02/H637 (Belgium)
APROBATA TECHNICZNA ITB (AT-15-497/2001) (Poland).

The excellent performance characteristics of DOW CORNING 3362 Sealant are a result of improved properties including lower water absorption and improved adhesion. The improved stability of DOW CORNING 3362 Sealant at elevated temperatures, UV and humidity as well as its higher young modulus lead to insulated glass unit with longer life-time.

UV resistance (hours): 5000
(NF 85516) CEBTP Report: ref. 2352-9-873

Water pick-up (%): 0.5 after 60 days water immersion at 60°C (140°F)

Penetration index of IG unit: 0.027 CEBTP report: ref. 2324-6-658

HOW TO USE

Mixing and dispensing instructions

DOW CORNING 3362 Sealant should be mixed in a ratio of 10:1 base to curing agent by weight, or equivalent 7.9:1 by volume for optimal properties. At this mix ratio, the sealant typically exhibits a working time of 5-10 minutes and allows units to be handled within two hours. Slight variations in mixing ratio can be tolerated, but these should not exceed 11:1 to 9:1 by weight to ensure minimum properties are obtained.

The sealant is compatible with most of DOW CORNING Neutral Curing Construction Sealants. Please contact our Technical Services Department for more information.

To obtain the ultimate physical properties from DOW CORNING 3362 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 dispensing machines.

Catalyst selection

Different catalysts available for DOW CORNING 3362 Sealant.

- DOW CORNING 3362 Standard Catalyst is liquid type, longer cure time catalyst suitable for meter mix equipment that uses pressure pot system.
- DOW CORNING 3362 HV Catalyst is a medium viscosity paste, fast cure, which is suitable for meter mix equipment using a pressure pot or follower plate system for the catalyst.
- DOW CORNING 3362 HV/GER Catalyst is a viscous paste fast cure and is suitable for meter mix equipment that uses a follower plate system for the catalyst.

Curing Agent will react with atmospheric moisture and therefore should not be exposed to air for prolonged periods of time. It is strongly recommended that the curing agent be agitated before use to ensure homogeneity of all components.

Equipment cleaning

When not being used it is recommended that the dispensing equipment be purged either with the uncatalyzed base, or flushed with a suitable solvent such as DOW CORNING® 3522 Concentrated Cleaning Solvent. If cured sealant has built up inside the equipment it is recommended to flush the equipment for the appropriate time with DOW CORNING 3522 Concentrated Cleaning Solvent. This solvent dissolves cured silicone sealant and provides optimum cleaning performance.

TECHNICAL SERVICES

Dow Corning provides comprehensive technical service as part of customer support to ensure the optimal 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 base by Dow Corning technical service staff.

Consult Dow Corning's Technical Services departments for further advice on specific applications:

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HANDLING PRECAUTIONS

Product safety information required for safe use is not included. Before handling, read product and safety data sheets and container labels for safe use, physical and health hazard information. The material safety data sheet is available on the Dow Corning website at www.dowcorning.com. You can also obtain a copy from your local Dow Corning sales representative or Distributor or by calling your local Dow Corning Global Connection.

USABLE LIFE AND STORAGE

When stored at or below 30°C (86°F), DOW CORNING 3362 Curing Agent has a usable life of 12 months from the date of production.

When stored at or below 30°C (86°F), DOW CORNING 3362 Base has a usable life of 12 months from the date of production.

PACKAGING

Lot matching of Base and Curing Agent is not required.

DOW CORNING 3362 Base is available in 250kg drums and 20 liter pails.

DOW CORNING 3362 Catalyst is available in 25kg pails.

LIMITATIONS

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

The sealant can not be used for structural glazing of glass units onto a metal frame. DOW CORNING® 993 is the recommended product for that application.

Please contact Dow Corning to get the proper glazing recommendations when use of Coated Glass.

HEALTH AND ENVIRONMENTAL INFORMATION

To support Customers in their product safety needs, Dow Corning has an extensive Product Stewardship organization and a team of Product Safety and Regulatory Compliance (PS&RC) specialists available in each area.

For further information, please see our website, www.dowcorning.com or consult your local Dow Corning representative.

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 customers' tests to ensure that Dow Corning's 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 the product will meet the Dow Corning 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.

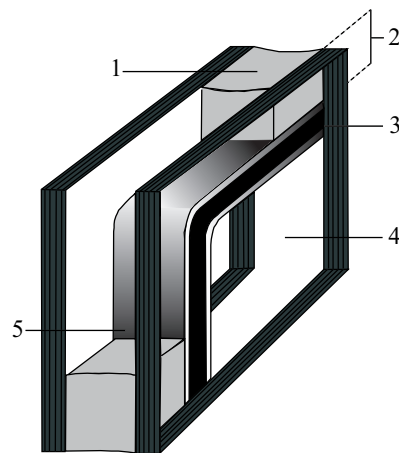
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DOW CORNING DISCLAIMS LIABILITY FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES.

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



Legend

- 1. Secondary seal (DOW CORNING 3362 Insulating Glass Sealant)
- 2. Secondary seal - sealant depth
- 3. Primary seal - Poly Iso Butylene
- 4. Glass
- 5. Spacer bar

Figure 2: DOW CORNING 3362 Sealant - Snaptime evolution with temperature.

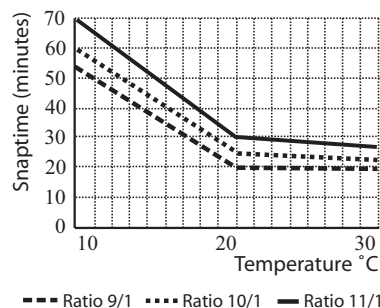


Figure 3: DOW CORNING 3362 Sealant - Tack-free time evolution with temperature.

