

IGS3723

Two Part Insulating Glass Silicone Sealant

Product Description

IGS 3723 insulating glass sealant is a two-component silicone which cures to form a high strength, high modulus sealant exhibiting the following features:

Excellent adhesion to glass, most reflective glass coatings, aluminum and galvanized steel spacers.

Variable ratio allowing for cure rate adjustment.

High application rate at low pumping pressures (reduces pump wear)

Excellent filling and tooling characteristics.

Low sag or slump. Allows use on automatic sealing equipment.

Low odour.

No kit matching required.

Compatible with ULTRAGLAZE* Structural Glazing Sealants.

Non-Flammable curing agent.

PACKAGING

IGS 3723 component A is available in 265.4 kg drums.

IGS 3723 component B is available in 20.4 kg pails.

Colours: IGS 3723 Insulating Glass Sealant is available in black only.

Key Performance Properties

BASIC USES

IGS 3723 Insulating Glass Sealant is designed for use as an insulating glass secondary seal and is easily dispensed using readily available plural component pumping equipment. Only minor modifications to existing silicone plural component pumping system are required.

LIMITATIONS

IGS 3723 Insulating Glass Sealant should be used in the fabrication of insulating glass where the dual seal method of fabrication is used. The moisture vapour transmission rate of silicone sealants is sufficiently high as to preclude their use in the fabrication of single seal insulating glass units. The dual seal fabrication method requires the use of a polyisobutylene primary seal with soldered, welded or butyl injected spacer frame corners.

Prior to production use, a sample of base (A component) and curing agent (B component) should be taken from each lot of material to be used, weighed to proper A to B ratio, hand mixed, and checked for proper tack-free time and thick section cure rate prior to placing in production.



Typical Product Data

Uncured Properties	component A	component B
Colour	White	Black
Specific Gravity	1.40	1.00
Mixed Compound Properties – Ratio by weight 12.5 : 1		
Colour	Black	
Specific Gravity	1.37	
Snap Time	20 – 50 minutes	
Sag/Flow	2 mm max.	
Corrosiveness	Non-corrosive	
Cured Properties – 7 days @ 23 °C, 50 % RH		
Shore A Hardness	43	ISO 868
Tensile strength, MPa	2.1	ISO 37, S 2
Elongation at break, %	200	ISO 37, S 2
Lap Shear aluminium, MPa Lap Shear Glass, MPa	0.9 0.9	
Cold Flow	Negligible	
Heat Resistance, °C	150	

TECHNICAL DATA

IGS 3723 Insulating Glass Sealant exhibits typical silicone sealant resistance to the environments usually encountered in insulating glass applications. These environments include ultra violet radiation, ozone, high and low temperature extremes and hydrolytic stability (high temperature and humidity).

IGS 3723 Insulating Glass Sealant is compatible with many types of coated high performance glass used in insulating glass fabrication. Also, it exhibits compatibility with many types of glazing sealants, particularly silicone glazing sealants. Momentive performance materials should be contacted with regard to specific glass types and glazing sealants for adhesion and compatibility information.

Instructions for Use **METHOD OF APPLICATION**

IGS 3723 Insulating Glass Sealant should be mixed and dispensed using two-component mixing equipment which is readily available from several equipment manufacturers. This equipment is specially designed to meter proper proportions of A base and B curing agent, mix in an air-free environment and dispense at the proper pressures and volumes to insure air-free mixed material. Hand mixing is not recommended.

Consult Momentive performance materials regarding suggested pumping equipment start-up and shutdown procedures which cover proper operating pressures, mixing devices and purging requirements.

Kit matching of the A and B IGS 3723 Insulating Glass Sealant components is not required.

The B curing agent component is moisture sensitive and should not be exposed to the atmosphere. The curing agent may require minimal hand mixing before placing container in pumping equipment.

Cure rate may be adjusted by changing the A base to B curing agent ratios. IGS 3723 sealant may be used with A to B ratios from 13:1 to 9:1 by weight (9.3:1 to 6.4:1 by volume).

Handling and Safety **PRECAUTIONS**

Material Safety Data Sheets are available upon request from Momentive performance materials. Similar information for solvents and other chemicals used with Momentive performance materials products should be obtained from your suppliers.

When solvents are used, proper safety precautions must be observed. All solvents must be used only in well ventilated areas. Exposure to high vapor concentrations must be avoided. When flammable solvents are used, storage, mixing and use must be in areas away from heat, sparks, flame or other sources of ignition.

The A and B components of IGS 3723 insulating glass sealant may cause mild eye irritation upon prolonged contact. In the case of eye contact, immediately flush eyes with large quantities of water for at least 15 minutes and contact physician if irritation persists. This material should not be used in contact with foods, drugs or cosmetics.

**Storage and Warranty
Period**

Shelf life for the A-part is 18 months and for the B-part 12 months from date of manufacture (see use before date on compliance report) when stored in original, unopened containers below 25° C in a dry place. Storage outside in freezing conditions or above 25° C should be avoided.

Availability

IGS 3723 Insulating Glass Sealant is available on a direct basis from Momentive performance materials. For availability and cost information, consult your nearest Momentive performance materials sales office.



PRINCIPAL LOCATIONS – Regional Information

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