

IGS3723

two part insulating glass silicone sealant

Product Description

IGS3723 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 odor.
- No kit matching required.
- Compatible with UltraGlaze* structural glazing sealants and SilPruf* weatherproofing sealants.
- Non-Flammable curing agent.
- Meets applicable requirements of EN1279-4.

Packaging

IGS3723 component A is available in 265.4 kg drums.
IGS3723 component B is available in 20.4 kg pails.

Colour

IGS3723 insulating glass sealant is available in black and grey.

Basic Uses

IGS3723 insulating glass sealant is designed for use as an insulating glass secondary seal also called edge seal and is easily dispensed using readily available two component pumping equipment.

Limitations

IGS3723 insulating glass sealant is designed to be used in the fabrication of dual sealed insulating glass units. The dual seal insulating glass units requires the use of a polyisobutylene primary seal with blend, 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 snap time, tack-free time and thick section cure rate prior to placing in production.

GE is a registered trademark of General Electric Company and is under license by Momentive Performance Materials Inc. Momentive Performance Materials provides versatile materials as the starting point for its creative approach to ideas that help enable new developments across hundreds of industrial and consumer applications. We are helping customers solve product, process, and performance problems; our silanes, fluids, elastomers, sealants, resins, adhesives, urethane additives, and other specialty products are delivering innovation in everything from car engines to biomedical devices. From helping to develop safer tires and keeping electronics cooler, to improving the feel of lipstick and ensuring the reliability of adhesives, our technologies and enabling solutions are at the frontline of innovation.



IGS3723 two part insulating glass silicone sealant

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 or Grey	
Specific Gravity	1.37 Kg/L	
Snap Time	20 - 50 minutes	
Sag/Flow	< 2 mm	
Cured Properties - 7 days @ 23°C, 50% RH		
Shore A Hardness	43	ISO 868
Tensile Strength	2.1 MPa	ISO 37, S2
Elongation at Break	200%	ISO 37, S2
Lap Shear Glass	0.8 MPa	ASTM C961-06
Service Temperature	-40°C to +100°C	
VOC Content	27 g/l	WPSTM C1454
Moisture Vapor Transmission Rate	17 g H ₂ O·m ⁻² ·(24 H) (2 mm)	EN1279-4
Gas Permeation Rate	0.54 g/(m ² ·h)	EN1279-4

Technical Data

IGS3723 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).

IGS3723 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

IGS3723 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 IGS3723 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. IGS3723 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 IGS3723 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.

IGS3723 two part insulating glass silicone sealant

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

Information on ordering can be obtained from Momentive Performance Materials; the sales office nearest to you, or an authorized GE sealants distributor. For information regarding cost, contact your local distributor or area manager. Our Customer Service number is: 00.800.4321.1000.

Patent Status

Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute the permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

Product Safety, Handling and Storage

Customers considering the use of this product should review the latest Material Safety Data Sheet and label for product safety information, handling instructions, personal protective equipment if necessary, and any special storage conditions required. Material Safety Data Sheets are available at www.ge.com/silicones or, upon request, from any Momentive Performance Material representative. Use of other materials in conjunction with Momentive Performance Materials sealants products (for example, primers) may require additional precautions. Please review and follow the safety information provided by the manufacturer of such other materials.

Emergency Service

MPM maintains an around-the-clock emergency service for its products. The American Chemistry Council (CHEMTREC) and CareChem24 International also maintain an around-the-clock emergency service for all chemical products:

Location	Momentive Performance Materials Products	All Chemical Products
Mainland U.S., Puerto Rico	518.233.2500	CHEMTREC: 800.424.9300
Alaska, Hawaii	518.233.2500	CHEMTREC: 800.424.9300
Canada	518.233.2500	CHEMTREC: 800.424.9300
Europe	+518.233.2500 (Albanian, Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Lithuanian, Norwegian, Polish, Portuguese, Romanian, Russian, Serbo-Croatian, Slovak, Spanish, Swedish, Turkish, Ukrainian)	+44.(0)208.762.8322 (UK)
Middle East, All countries, except Israel	+518.233.2500	+961.3.487.287 (Lebanon)
Middle East, Israel	+518.233.2500	+44.(0)208.762.8322 (UK)
Latin America, Asia/Pacific, all other locations worldwide	+518.233.2500	CHEMTREC: +1-703.527.3887 (collect)
At sea	Radio U.S. Coast Guard, which can directly contact Momentive Performance Materials at 518.233.2500 or CHEMTREC at 800.424.9300.	

DO NOT WAIT. Phone if in doubt. You will be referred to a specialist for advice.

CUSTOMER SERVICE CENTERS

North America	E cs-na.silicones@momentive.com		
	• Specialty Fluids	T +1.800.523.5862	F +1.304.746.1654
	• UA, Silanes and Specialty Coatings	T +1.800.334.4674	F +1.304.746.1623
	• RTVs and Elastomers	T +1.800.332.3390	F +1.304.746.1623
	• Consumer Sealants & Construction Sealants and Adhesives	T +1.877.943.7325	F +1.304.746.1654

Latin America	E cs-la.silicones@momentive.com		
	• Argentina & Chile	T +54.11.4862.9544	F +54.11.4862.9544
	• Brazil	T +55.11.4534.9650	F +55.11.4534.9660
	• Mexico & Central America	T +52.55.2169.7670	F +52.55.2169.7699
	• Venezuela, Ecuador, Peru Colombia & Caribbean	T +58.212.285.2149	F +58.212.285.2149

Europe, Middle East, Africa and India	E cs-eur.silicones@momentive.com	T 00.800.4321.1000	
--	---	---------------------------	--

Pacific	E cs-ap.silicones@momentive.com	T +1.800.820.0202 T +0.81.276.20.6182	F +81.276.31.6259
----------------	--	--	--------------------------

Worldwide Hotline		T +1.607.786.8131 T +1.800.295.2392	F +1.607.786.8309
--------------------------	--	--	--------------------------

Visit us at www.ge.com/silicones

THE MATERIALS, PRODUCTS AND SERVICES OF MOMENTIVE PERFORMANCE MATERIALS INC., MOMENTIVE PERFORMANCE MATERIALS USA INC., MOMENTIVE PERFORMANCE MATERIALS ASIA PACIFIC PTE. LTD., MOMENTIVE PERFORMANCE MATERIALS WORLDWIDE INC., MOMENTIVE PERFORMANCE MATERIALS GmbH, THEIR SUBSIDIARIES AND AFFILIATES DOING BUSINESS IN LOCAL JURISDICTIONS (collectively "SUPPLIERS"), ARE SOLD BY THE RESPECTIVE LEGAL ENTITY OF THE SUPPLIER SUBJECT TO SUPPLIERS' STANDARD CONDITIONS OF SALE, WHICH ARE INCLUDED IN THE APPLICABLE DISTRIBUTOR OR OTHER SALES AGREEMENT, PRINTED ON THE BACK OF ORDER ACKNOWLEDGMENTS AND INVOICES, AND AVAILABLE UPON REQUEST. ALTHOUGH ANY INFORMATION, RECOMMENDATIONS, OR ADVICE CONTAINED HEREIN IS GIVEN IN GOOD FAITH, SUPPLIERS MAKE NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, (i) THAT THE RESULTS DESCRIBED HEREIN WILL BE OBTAINED UNDER END-USE CONDITIONS, OR (ii) AS TO THE EFFECTIVENESS OR SAFETY OF ANY DESIGN INCORPORATING SUPPLIERS' PRODUCTS, MATERIALS, SERVICES, RECOMMENDATIONS OR ADVICE. AFOREMENTIONED EXCLUSIONS OR LIMITATION OF LIABILITY ARE NOT APPLICABLE TO THE EXTENT THAT THE END-USE CONDITIONS AND/OR INCORPORATION CONDITIONS CORRESPOND TO THE RECOMMENDED CONDITIONS OF USE AND/OR OF INCORPORATION AS DESCRIBED BY SUPPLIER IN ITS PRODUCT DATA SHEET AND/OR PRODUCT SPECIFICATIONS. EXCEPT AS PROVIDED IN SUPPLIERS' STANDARD CONDITIONS OF SALE, SUPPLIERS AND THEIR REPRESENTATIVES SHALL IN NO EVENT BE RESPONSIBLE FOR ANY LOSS RESULTING FROM ANY USE OF ITS MATERIALS, PRODUCTS OR SERVICES DESCRIBED HEREIN.

Each user bears full responsibility for making its own determination as to the suitability of Suppliers' materials, services, recommendations, or advice for its own particular use. Each user must identify and perform all tests and analyses necessary to assure that its finished parts incorporating Suppliers' products, materials, or services will be safe and suitable for use under end-use conditions. Nothing in this or any other document, nor any oral recommendation or advice, shall be deemed to alter, vary, supersede, or waive any provision of Suppliers' Standard Conditions of Sale or this Disclaimer, unless any such modification is specifically agreed to in a writing signed by Suppliers. No statement contained herein concerning a possible or suggested use of any material, product, service or design is intended, or should be construed, to grant any license under any patent or other intellectual property right of Suppliers or any of its subsidiaries or affiliates covering such use or design, or as a recommendation for the use of such material, product, service or design in the infringement of any patent or other intellectual property right.

*UltraGlaze is a trademark of Momentive Performance Materials Inc.
GE is a registered trademark of General Electric.
Momentive is a trademark of Momentive Performance Materials Holdings LLC.
Copyright 2003-2011 Momentive Performance Materials Inc. All rights reserved.

161-039-10E-GL
CDS: DataIGS3723 (04/11)



Test report

Project name	:	IGS3723, IGS3663, IGS3763 on PC, PMMA, SAN
Requestor	:	XXX
Project number	:	RK2017019
Type of test	:	Adhesion
Date	:	29-Jul-2017
Tested by	:	Ricardo Koens

Test(s):

Prepare peel adhesion samples with IGS3723, IGS3663 and IGS3763 on the given substrates according to a modified ASTM C-794 or modified ETAG002 8.3.2.4.2.

Test conditions:

Initial	:	14 days room temperature cure (23 ± 2 °C, $50 \pm 5\%$ RH)
Water immersion	:	14 days initial + 7 days H ₂ O
Oven 100 °C	:	14 days initial + 7 days H ₂ O + 7 days 70 °C

Cleaning procedure:

Take a piece of cloth and transfer cleaning agent (IPA) on it. Then wipe the surface of the substrate material, followed by a dry cloth, which removes any residue. Repeat this step until there are no contaminants visible on the dry cloth. Wait 10-15 minutes before applying the sealant. Please understand other solvents can be used, like MEK or acetone, etc., but this should always be tested.

Priming procedure:

First follow the cleaning procedure. Then transfer some primer (SS4004P and SS4179) on a cloth and apply the primer with a single wipe on the surface of the substrate. Wait 10-15 minutes before applying the sealant.

Results:

Results can be found on next page.



Test report

Project name : IGS3723, IGS3663, IGS3763 on PC, PMMA, SAN
 Requestor : XXX
 Project number : RK2017019
 Type of test : Adhesion
 Date : 29-Jul-2017
 Tested by : Ricardo Koens

Substrate	Grade	Cleaning Agent	Primer	Initial CF (%)	Water immersion CF (%)	Oven 70°C CF (%)	Adhesion
PC	IGS3723	IPA	None	0	0	100	Not ok
	IGS3723	IPA	SS4004P	100	100	100	Ok
	IGS3723	IPA	SS4179	100	100	100	Ok
PC	IGS3663	IPA	None	100	100	100	Ok
	IGS3663	IPA	SS4004P	100	75	100	Not ok
	IGS3663	IPA	SS4179	100	100	100	Ok
PC	IGS3763	IPA	None	100	100	100	Ok
	IGS3763	IPA	SS4004P	100	75	100	Not ok
	IGS3763	IPA	SS4179	100	100	100	Ok
PMMA	IGS3723	IPA	None	0	-	-	Not ok
	IGS3723	IPA	SS4004P	100	100	100	Ok
	IGS3723	IPA	SS4179	100	100	100	Ok
PMMA	IGS3663	IPA	None	0	-	-	Not ok
	IGS3663	IPA	SS4004P	100	80	100	Not ok
	IGS3663	IPA	SS4179	100	100	100	Ok
PMMA	IGS3763	IPA	None	0	-	-	Not ok
	IGS3763	IPA	SS4004P	100	80	100	Not ok
	IGS3763	IPA	SS4179	100	100	100	Ok
SAN	IGS3723	IPA	None	0	-	-	Not ok
	IGS3723	IPA	SS4004P	0	-	-	Not ok
	IGS3723	IPA	SS4179	100	100	100	Ok
SAN	IGS3663	IPA	None	0	-	-	Not ok
	IGS3663	IPA	SS4004P	0	-	-	Not ok
	IGS3663	IPA	SS4179	100	100	100	Ok
SAN	IGS3763	IPA	None	0	-	-	Not ok
	IGS3763	IPA	SS4004P	0	-	-	Not ok
	IGS3763	IPA	SS4179	100	100	100	Ok

Adhesion is ok when results of all test conditions are $\geq 90\%$, - peel was pulled completely from substrate at initial phase.

Conclusion:

Adhesion tests performed according to an internal test procedure for IGS sealants in a structural application.

When cleaned according to the cleaning procedure, IGS3723 requires a primer to attain adhesion on the PC, PMMA and SAN substrate.

When cleaned according to the cleaning procedure, IGS3663 and IGS3763 do not require a primer to attain adhesion on the PC substrate.





Test report

Project name	:	IGS3723, IGS3663, IGS3763 on PC, PMMA, SAN
Requestor	:	XXX
Project number	:	RK2017019
Type of test	:	Adhesion
Date	:	29-Jul-2017
Tested by	:	Ricardo Koens

When cleaned according to the cleaning procedure, IGS3663 and IGS3763 require a primer to attain adhesion on the PMMA and SAN substrate.

In case a primer is required best results are obtained with SS4179.

Remark: Please be aware primers SS4004P and SS4179 etches the surface of the substrate.



Licensed
Products

Copyright 2017 Momentive Performance Materials Inc., all rights reserved. GE is a registered Trademark of General Electric Company and used under license by Momentive Performance Materials Inc.



Test report

Project name : IGS3723, IGS3663, IGS3763 on PC, PMMA, SAN
Requestor : XXX
Project number : RK2017019
Type of test : Adhesion
Date : 29-Jul-2017
Tested by : Ricardo Koens

Caution:

As always, we recommend that adhesion testing should be verified under actual jobsite conditions and monitored in the sealant application progresses.

The above recommendations are valid only for the specified project and not intended to serve as a blanket approval.

The above recommendations are not intended as project warranty. For details on specific project warranties please refer to your local Sales Representative or Distributor for full explanation of process and requirements.

Failures of substrate (i.e., paint delamination, softening or release of E.I.F.S. finish coats, etc.) are not considered to be sealant failures and are not covered under the Momentive Performance Materials warranty.

This testing is for an adhesion testing that does not makes any guarantee for construction design calculation.

It should be confirmed that materials used on the project are the same as samples tested.

The adhesion results shown in this report was limited in scope and purpose and may not necessarily reflect actual end-use performance of the application. For that reason, Momentive recommends that adhesion tests be performed and verified under end-use conditions and monitored as the sealant application progresses.

Note:

Users should purchase GE sealant only from authorized distributors, to avoid imitations.
If you have any question on this report, don't hesitate to contact the technical service engineer.

Report made by: R. Koens

Date: 29-Jul-2017

DISCLAIMER: THE MATERIALS, PRODUCTS AND SERVICES OF MOMENTIVE PERFORMANCE MATERIALS INC., MOMENTIVE PERFORMANCE MATERIALS USA INC., MOMENTIVE PERFORMANCE MATERIALS ASIA PACIFIC PTE. LTD., MOMENTIVE PERFORMANCE MATERIALS WORLDWIDE INC., MOMENTIVE PERFORMANCE MATERIALS GmbH, THEIR SUBSIDIARIES AND AFFILIATES DOING BUSINESS IN LOCAL JURISDICTIONS (collectively "SUPPLIERS"), ARE SOLD BY THE RESPECTIVE LEGAL ENTITY OF THE SUPPLIER SUBJECT TO SUPPLIERS' STANDARD CONDITIONS OF SALE, WHICH ARE INCLUDED IN THE APPLICABLE DISTRIBUTOR OR OTHER SALES AGREEMENT, PRINTED ON THE BACK OF ORDER ACKNOWLEDGMENTS AND INVOICES, AND AVAILABLE UPON REQUEST. ALTHOUGH ANY INFORMATION, RECOMMENDATIONS, OR ADVICE CONTAINED HEREIN IS GIVEN IN GOOD FAITH, SUPPLIERS MAKE NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, (i) THAT THE RESULTS DESCRIBED HEREIN WILL BE OBTAINED UNDER END-USE CONDITIONS, OR (ii) AS TO THE EFFECTIVENESS OR SAFETY OF ANY DESIGN INCORPORATING SUPPLIERS' PRODUCTS, MATERIALS, SERVICES, RECOMMENDATIONS OR ADVICE. AFOREMENTIONED EXCLUSIONS OR LIMITATION OF LIABILITY ARE NOT APPLICABLE TO THE EXTENT THAT THE END-USE CONDITIONS AND/OR INCORPORATION CONDITIONS CORRESPOND TO THE RECOMMENDED CONDITIONS OF USE AND/OR OF INCORPORATION AS DESCRIBED BY SUPPLIER IN ITS PRODUCT DATA SHEET AND/OR PRODUCT SPECIFICATIONS. EXCEPT AS PROVIDED IN SUPPLIERS' STANDARD CONDITIONS OF SALE, SUPPLIERS AND THEIR REPRESENTATIVES SHALL IN NO EVENT BE RESPONSIBLE FOR ANY LOSS RESULTING FROM ANY USE OF ITS MATERIALS, PRODUCTS OR SERVICES DESCRIBED HEREIN.

Each user bears full responsibility for making its own determination as to the suitability of Suppliers' materials, services, recommendations, or advice for its own particular use. Each user must identify and perform all tests and analyses necessary to assure that its finished parts incorporating Suppliers' products, materials, or services will be safe and suitable for use under end-use conditions. Nothing in this or any other document, nor any oral recommendation or advice, shall be deemed to alter, vary, supersede, or waive any provision of Suppliers' Standard Conditions of Sale or this Disclaimer, unless any such modification is specifically agreed to in a writing signed by Suppliers. No statement contained herein concerning a possible or suggested use of any material, product, service or design is intended, or should be construed, to grant any license under any patent or other intellectual property right of Suppliers or any of its subsidiaries or affiliates covering such use or design, or as a recommendation for the use of such material, product, service or design in the infringement of any patent or other intellectual property right.



Licensed
Products

Copyright 2017 Momentive Performance Materials Inc., all rights reserved. GE is a registered Trademark of General Electric Company and used under license by Momentive Performance Materials Inc.