



Tosseal 83 AMB

One Part Oxime Silicone Sealant (Antimicrobial and antifungal grade)

Product Description

TOSSEAL 83 AMB is a 1-part oxime silicone sealant with fungicides. So mildew is less likely to happen. It also contains antimicrobial agents that inhibit the growth of bacteria such as Staphylococcus aureus and Escherichia coli.

This sealant adheres well to glass, tiles, plastics, and metals. It can withstand severe conditions such as ozone, ultraviolet rays, temperature changes, and various chemicals. It provides excellent waterproofing properties.

Key Features and Typical Benefits

- · One-component type for easy use
- · Mildew is less likely to occur
- No corrosion to most metals
- · Excellent adhesion to various materials
- · Superior weather resistance and durability

Characteristic Examples

Internal Test Results Based on JIS A 5758

Applications

- Modular bathroom: Seal around plastic bathtubs and joints in bathrooms
- General household use: Prevention of water leakage around washbasins and sinks
- Prefabricated and freezer rooms: Joint sealing during assembly on factory lines
- Other: Seals in areas where mold growth is a particular problem

Characteristic		Measured value
Туре		F,G
Class		30SLM equivalent
Slump	Vertical	0
mm	Horizontal	0
Elastic recovery	%	91%
Modulus 60%	23°C	0.3
MPa	-20°C	0.3
Adhesion under constant elongation		No failure
Adhesion after compressed heating and extended cooling		No failure
Adhesion after exposure to Xenon light		No failure
Adhesion under constant elongation after water immersion		No failure
Volume loss %		4
Durability class		9030G equivalent

Note: Substrate...Aluminum Primer...Tosprime D



Technical Data Sheet

Typical Uncured Properties

Typical Uncured Properties		(JIS A 1439)
Characteristic		Measured value
Appearance		Paste
SG (23°C)		1.03
Skin over time (23°C)	min	10
Extrusion (5°C)	s	5
Primer use required		Yes

Typical Cured Properties

(JIS A 1439)

Characteristic		Measured value
Substrate: Aluminum		
	Initial aging	0.30
Modulus 50% MPa	Heating (100°C,14days)	0.30
	Water immersion (23°C,7 days)	0.28
	Initial aging	0.57
Tensile strength MPa	Heating (100°C,14days)	0.55
	Water immersion (23°C,7 days)	0.52
	Initial aging	190
Elongation at maximum load %	Heating (100°C,14days)	190
	Water immersion (23°C,7 days)	200
	Initial aging	190
Elongation at break %	Heating (100°C,14days)	190
	Water immersion (23°C,7 days)	200
	Initial aging	100
Cohesion failure %	Heating (100°C,14days)	100
	Water immersion (23°C,7 days)	100

Note: Primer Tosprime D

Mold Resistance Test Results

Product	Aging condition	JIS indicator	Remarks
TOSSEAL 83 AMB	Initial	0	No mycelial growth is observed both initially and after
TOSSEAL 65 AIVID	Hot water immersion	0	hot water immersion
TOSSEAL 381	Initial	2	Mycelial development exceeds 1/3 of specimen area
TOSSEAL 301	Hot water immersion	2	invocenar development exceeds 1/5 of specifien area

Aging condition: Initial 23°C/7days Hot water immersion + 50°C/7days



Antimicrobial Properties

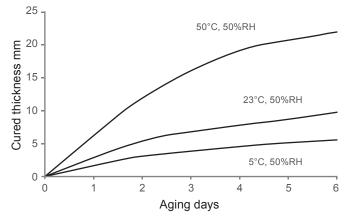
The table below shows the test result for TOSSEAL 83 AMB in accordance with JIS Z 2801 "Antimicrobial-processed products-Antimicrobial test methods and antimicrobial effect".

Antimicrobial Test Result

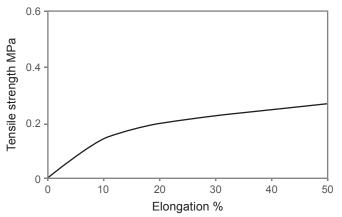
Product	Bacteria	Antibacterial activity value
TOSSEAL 83 AMB	Staphylococcus aureus	>5
IUSSEAL 03 AIVID	Escherichia coli	6.1

Aging condition: 35°C/24hours

Cured Property



Stress-strain Curve



Application Instructions

Surface Preparation

Substrate surface should be thoroughly cleaned with a suitable solvent such as alcohol, xylene, methyl ethyl ketone (MEK). Do not use soap, detergent, or water. Wipe the surface dry. Sealant will not properly adhere to a wet substrate.

Masking

To obtain a neat sealant line, use masking tape to cover areas adjacent to any joints before priming.

Primer

A preliminary adhesion test of sealant on the substrate is recommended to ascertain proper adhesion. For difficult-tobond substrates, use of a primer (TOSPRIME C, D or E) is suggested. Allow primer to dry thoroughly before proceeding.

Back-up Material

Do not apply sealant in direct contact with organic rubber such as chloroprene or EPT etc. Rubber closed to back-up materials may stain the silicone sealant.

Applying and Tooling Sealant

Cut nozzle to desired bead size, break the membrane film completely and extrude sealant in the joint. Tool immediately, within 5 minutes of application, with a spatula to spread the sealant against the back-up material and joint surfaces. Remove masking tape immediately after tooling. Sealant will begin to skin on the exposed surface in about 10 minutes and cure will progress inward.

Notes

TOSSEAL 83 AMB may yellow slightly after extended exposure to sunlight or UV light. Alcohol is a suitable solvent for removing stains from sealant.



Handling and Saftey

Wear eye protection when handling uncured sealant as it can irritate eyes. In case of eye contact, immediately flush eyes well with water and contact a physician. This product releases methyl ethyl ketoxime vapors as a by-product of cure. Maintain adequate ventilation in the workplace at all times. Extended contact with the skin may cause irritation and should be avoided. Not for food contact use.

Storage

- Store in a cool, dry, dark place.
- · Keep out of reach of children.

Primer Selection

- TOSSEAL primers; TOSPRIME C, D and E have been specially prepared to ensure the durability and bonding strength of
- TOSSEAL 83 AMB to various substrates. The chart below shows which primer is most compatible with the substrate.

Primer	Substrate
TOSPRIME C	Mortar, Masonry
TOSPRIME D	Glass, Metal, Ceramic
TOSPRIME E	Painted metal, Painted surfaces

Caution: Primers contain solvents which are highly flammable and toxic. Observe all cautions. Storage, mixing and use must be done in a well-ventilated area away from any source of ignition such as heat, sparks, and flame.

Do not use on marble without primer because of migration. TOSPRIME C is recommended.

Post-construction Notes

TOSSEAL 83 AMB has fungicides added to prevent the formation of mildew but should be cleaned once or twice a month with a towel moistened with water, especially in bathrooms and other areas prone to buildup of mildew. If water does not remove the mildew, clean with alcohol (isopropyl alcohol is best). If left unattended, the stains may become moldy and cannot be removed by wiping afterwards.

Packaging and Color

Package	Volume (Package unit)	Color
	Cartridge 333ml (10pics x 5box/1case)	Clear
		White
Cartridge		Pink
		Light grey
		Grey
		Black
		Offwhite

Issued: March 2022



Customer Service Centers

For additional information, please contact our Customer Service Team

AMERICAS +1 800 295 2392 Toll Free* +1 704 805 6946 Direct Number Email: commercial.services@momentive.com LATIN AMERICA BRAZIL +55 11 4534 9650 Direct Number -52 55 2169 7670 Direct Number -652 55 2169 7670 Direct Number -741 American countries EMEAI - EUROPE, MIDDLE EAST, AFRICA & INDIA EMEAI - EUROPE, MIDDLE EAST, AFRICA & INDIA FUNDIA, MIDDLE EAST & AFRICA +91 44 71212207 Direct Number -91 44 71212207 Direct Number -101 Middle Eastern countries, Africa, India, Pakistan, Bangladesh, Sri Lanka Email: 4information.eu@momentive.com ASIA PACIFIC CHINA 800 820 0202 Toll Free +86 21 3860 4892 Direct Number -813 5544 3111 Direct Number -813 2 6201 4600 Direct Number -813 2 6201 4600 Direct Number -814 732 5201 4600 Direct Number -815 2 6201 4600 Direct Number -814 7354 3111 Direct Number -812 2 6201 4600 Direct Number -813 2 6621 3600 Agen on the stript o		
Imail: commercial.services@momentive.com LATIN AMERICA BRAZIL +55 11 4534 9650 Direct Number MEXICO +52 55 2169 7670 Direct Number *All American countries MEXICO +52 55 2169 7670 Direct Number EMEAI - EUROPE, MIDDLE EAST, AFRICA & INDIA EUROPE +390510924300 Direct Number EUROPE +390510924300 Direct Number INDIA, MIDDLE EAST & AFRICA +91 44 71212207 Direct Number* *All Middle East & AFRICA +91 44 71212207 Direct Number* *All Middle Eastern countries, Africa, India, Pakistan, Bangladesh, Sri Lanka Email: 4information.eu@momentive.com Email: 4information.eu@momentive.com ASIA PACIFIC CHINA 800 820 0202 Toll Free +86 21 3860 4892 Direct Number 800 820 0202 Toll Free +86 21 3860 4892 Direct Number ASIA PACIFIC CHINA 800 820 0202 Toll Free +86 21 3860 4892 Direct Number *B1 3 5544 3111 Direct Number *60 3 9206 1543 Direct Number *60 3 9206 1543 Direct Number *60 3 9206 1543 Direct Number* *All East Asia countries (Malaysia, Singapore, Thailand, Indonesia, Vietnam, Philippines, Cambodia, Myanmar / other countries located in Pacific region) Email: 4information.ap@momentive.com	AMERICAS	+1 800 295 2392 Toll Free*
LATIN AMERICA BRAZIL +55 11 4534 9650 Direct Number MEXICO +52 55 2169 7670 Direct Number *All American countries EMEAI - EUROPE, MIDDLE EAST, AFRICA & INDIA EUROPE +39050924300 Direct Number *MIDIA, MIDDLE EAST, AFRICA & INDIA EUROPE +39050124207 Direct Number *All American countries, Africa, India, Pakistan, Bangladesh, Sri Lanka Email: 4Information.eu@momentive.com ASIA PACIFIC CHINA 800 820 0202 Toll Free +86 21 3860 4892 Direct Number JAPAN +81 3 5544 3111 Direct Number KOREA +82 2 6201 4600 Direct Number *AUE EAST ASIA, AUSTRALIA & NEW ZEALAND +60 3 9206 1543 Direct Number* *All East Asia countries (Malaysia, Singapore, Thailand, Indonesia, Vietnam, Philippines, Cambodia, Myanmar / other countries located in Pacific region) Email: 4information.ap@momentive.com		+1 704 805 6946 Direct Number
+55 11 4534 9650 Direct Number +52 55 2169 7670 Direct Number *All American countries EMEAI - EUROPE, MIDDLE EAST, AFRICA & INDIA EUROPE +390510924300 Direct Number INDIA, MIDDLE EAST & AFRICA +91 44 71212207 Direct Number* *All Middle Eastern countries, Africa, India, Pakistan, Bangladesh, Sri Lanka Email: 4information.eu@momentive.com ASIA PACIFIC CHINA 800 820 0202 Toll Free +85 21 3860 4892 Direct Number JAPAN +81 3 5544 3111 Direct Number KOREA +82 2 6201 4600 Direct Number* *All East Asia countries (Malaysia, Singapore, Thailand, Indonesia, Vietnam, Philippines, Cambodia, Myanmar / other countries located in Pacific region) Email: 4information.ap@momentive.com		Email: commercial.services@momentive.com
MEXICO +52 55 2169 7670 Direct Number *All American countries EMEAI - EUROPE, MIDDLE EAST, AFRICA & INDIA EMEAI - EUROPE, MIDDLE EAST, AFRICA & INDIA ENTRAL HOLA, MIDDLE EAST & AFRICA +91 44 71212207 Direct Number* *All Middle Eastern countries, Africa, India, Pakistan, Bangladesh, Sri Lanka Email: 4information.eu@momentive.com ASIA PACIFIC CHINA 800 820 0202 Toil Free +86 21 3860 4892 Direct Number JAPAN +81 3 5544 3111 Direct Number KOREA +82 2 6201 4600 Direct Number* *All East Asia countries (Malaysia, Singapore, Thailand, Indonesia, Vietnam, Philippines, Cambodia, Myanmar / other countries located in Pacific region) Email: 4information.ap@momentive.com	LATIN AMERICA	
+52 55 2169 7670 Direct Number *All American countries EMEAI - EUROPE, MIDDLE EAST, AFRICA & INDIA EUROPE *390510924300 Direct Number *1000000000000000000000000000000000000		+55 11 4534 9650 Direct Number
All American countries EMEAI – EUROPE, MIDDLE EAST, AFRICA & INDIA EIROPE +390510924300 Direct Number 'NDIA, MIDDLE EAST & AFRICA +91 44 71212207 Direct Number *All Middle Eastern countries, Africa, India, Pakistan, Bangladesh, Sri Lanka Email: 4information.eu@momentive.com ASIA PACIFIC CHINA 800 820 0202 Toll Free +86 21 3860 4892 Direct Number JAPAN +81 3 5544 3111 Direct Number KOREA +82 2 6201 4600 Direct Number SOUTH EAST ASIA, AUSTRALIA & NEW ZEALAND +60 3 9206 1543 Direct Number* *All East Asia countries (Malaysia, Singapore, Thailand, Indonesia, Vietnam, Philippines, Cambodia, Myanmar / other countries located in Pacific region) Email: 4information.ap@momentive.com		
EMEAI - EUROPE, MIDDLE EAST, AFRICA & INDIA EUROPE +390510924300 Direct Number +390510924300 Direct Number NDIA, MIDDLE EAST & AFRICA +91 44 71212207 Direct Number* *All Middle Eastern countries, Africa, India, Pakistan, Bangladesh, Sri Lanka Email: 4information.eu@momentive.com ASIA PACIFIC CHINA ASIA PACIFIC CHINA KOB 20 0202 Toll Free +86 21 3860 4892 Direct Number JAPAN +81 3 5544 3111 Direct Number KOREA +82 2 6201 4600 Direct Number SOUTH EAST ASIA, AUSTRALIA & NEW ZEALAND +60 3 9206 1543 Direct Number* *All East Asia countries (Malaysia, Singapore, Thailand, Indonesia, Vietnam, Philippines, Cambodia, Myanmar / other countries located in Pacific region) Email: 4information.ap@momentive.com		
+390510924300 Direct Number INDIA, MIDDLE EAST & AFRICA +91 44 71212207 Direct Number* *All Middle Eastern countries, Africa, India, Pakistan, Bangladesh, Sri Lanka Email: 4information.eu@momentive.com ASIA PACIFIC ASIA PACIFIC ASIA PACIFIC ASIA PACIFIC KOREA +82 2 6201 4600 Direct Number KOREA +82 2 6201 4600 Direct Number *82 2 6201 4600 Direct Number *82 2 6201 4600 Direct Number *82 2 6201 4600 Direct Number *60 3 9206 1543 Direct Number* *All East Asia countries (Malaysia, Singapore, Thailand, Indonesia, Vietnam, Philippines, Cambodia, Myanmar / other countries located in Pacific region) Email: 4information.ap@momentive.com		
+91 44 71212207 Direct Number* *All Middle Eastern countries, Africa, India, Pakistan, Bangladesh, Sri Lanka Email: <u>4information.eu@momentive.com</u> ASIA PACIFIC CHINA 800 820 0202 Toll Free +86 21 3860 4892 Direct Number JAPAN +81 3 5544 3111 Direct Number KOREA +82 2 6201 4600 Direct Number SOUTH EAST ASIA, AUSTRALIA & NEW ZEALAND +60 3 9206 1543 Direct Number* *All East Asia countries (Malaysia, Singapore, Thailand, Indonesia, Vietnam, Philippines, Cambodia, Myanmar / other countries located in Pacific region) Email: <u>4information.ap@momentive.com</u>	EMEAI – EUROPE, MIDDLE EAST, AFRICA & INDIA	
+91 44 71212207 Direct Number* *All Middle Eastern countries, Africa, India, Pakistan, Bangladesh, Sri Lanka Email: <u>4information.eu@momentive.com</u> ASIA PACIFIC CHINA 800 820 0202 Toll Free +86 21 3860 4892 Direct Number JAPAN +81 3 5544 3111 Direct Number KOREA +82 2 6201 4600 Direct Number SOUTH EAST ASIA, AUSTRALIA & NEW ZEALAND +60 3 9206 1543 Direct Number* *All East Asia countries (Malaysia, Singapore, Thailand, Indonesia, Vietnam, Philippines, Cambodia, Myanmar / other countries located in Pacific region) Email: <u>4information.ap@momentive.com</u>		
ASIA PACIFICEmail: 4information.eu@momentive.comASIA PACIFICCHINA 800 820 0202 Toll Free +86 21 3860 4892 Direct NumberJAPAN +81 3 5544 3111 Direct NumberKOREA +82 2 6201 4600 Direct NumberSOUTH EAST ASIA, AUSTRALIA & NEW ZEALAND +60 3 9206 1543 Direct Number**All East Asia countries (Malaysia, Singapore, Thailand, Indonesia, Vietnam, Philippines, Cambodia, Myanmar / other countries located in Pacific region) Email: 4information.ap@momentive.com		
ASIA PACIFIC CHINA 800 820 0202 Toll Free +86 21 3860 4892 Direct Number JAPAN +81 3 5544 3111 Direct Number KOREA +82 2 6201 4600 Direct Number SOUTH EAST ASIA, AUSTRALIA & NEW ZEALAND +60 3 9206 1543 Direct Number* *All East Asia countries (Malaysia, Singapore, Thailand, Indonesia, Vietnam, Philippines, Cambodia, Myanmar / other countries located in Pacific region) Email: 4information.ap@momentive.com		*All Middle Eastern countries, Africa, India, Pakistan, Bangladesh, Sri Lanka
800 820 0202 Toll Free +86 21 3860 4892 Direct Number JAPAN +81 3 5544 3111 Direct Number KOREA +82 2 6201 4600 Direct Number SOUTH EAST ASIA, AUSTRALIA & NEW ZEALAND +60 3 9206 1543 Direct Number* *All East Asia countries (Malaysia, Singapore, Thailand, Indonesia, Vietnam, Philippines, Cambodia, Myanmar / other countries located in Pacific region) Email: 4information.ap@momentive.com		Email: 4information.eu@momentive.com
+86 21 3860 4892 Direct NumberJAPAN +81 3 5544 3111 Direct NumberKOREA +82 2 6201 4600 Direct NumberSOUTH EAST ASIA, AUSTRALIA & NEW ZEALAND +60 3 9206 1543 Direct Number**All East Asia countries (Malaysia, Singapore, Thailand, Indonesia, Vietnam, Philippines, Cambodia, Myanmar / other countries located in Pacific region)Email: 4information.ap@momentive.com	ASIA PACIFIC	••••••
 +81 3 5544 3111 Direct Number KOREA +82 2 6201 4600 Direct Number SOUTH EAST ASIA, AUSTRALIA & NEW ZEALAND +60 3 9206 1543 Direct Number* *All East Asia countries (Malaysia, Singapore, Thailand, Indonesia, Vietnam, Philippines, Cambodia, Myanmar / other countries located in Pacific region) Email: 4information.ap@momentive.com 		
 +81 3 5544 3111 Direct Number KOREA +82 2 6201 4600 Direct Number SOUTH EAST ASIA, AUSTRALIA & NEW ZEALAND +60 3 9206 1543 Direct Number* *All East Asia countries (Malaysia, Singapore, Thailand, Indonesia, Vietnam, Philippines, Cambodia, Myanmar / other countries located in Pacific region) Email: 4information.ap@momentive.com 		
+82 2 6201 4600 Direct Number SOUTH EAST ASIA, AUSTRALIA & NEW ZEALAND +60 3 9206 1543 Direct Number* *All East Asia countries (Malaysia, Singapore, Thailand, Indonesia, Vietnam, Philippines, Cambodia, Myanmar / other countries located in Pacific region) Email: <u>4information.ap@momentive.com</u>		
+82 2 6201 4600 Direct Number SOUTH EAST ASIA, AUSTRALIA & NEW ZEALAND +60 3 9206 1543 Direct Number* *All East Asia countries (Malaysia, Singapore, Thailand, Indonesia, Vietnam, Philippines, Cambodia, Myanmar / other countries located in Pacific region) Email: <u>4information.ap@momentive.com</u>		KOREA
+60 3 9206 1543 Direct Number* *All East Asia countries (Malaysia, Singapore, Thailand, Indonesia, Vietnam, Philippines, Cambodia, Myanmar / other countries located in Pacific region) Email: <u>4information.ap@momentive.com</u>		
Philippines, Cambodia, Myanmar / other countries located in Pacific region) Email: <u>4information.ap@momentive.com</u>		
Visit us at <u>www.siliconeforbuilding.com</u>		Email: 4information.ap@momentive.com
	Visit us at www.siliconeforbuilding.com	

THE MATERIALS, PRODUCTS AND SERVICES OF MOMENTIVE PERFORMANCE MATERIALS INC. AND ITS SUBSIDIARIES AND AFFILIATES (COLLECTIVELY "SUPPLIER"), ARE SOLD SUBJECT TO SUPPLIER'S 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, SUPPLIER MAKES NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, (i) THAT THE RESULTS DESCRIBED HEREIN WILL BE OBTAINED UNDER END-USE CONDITIONS, OR ADVICE. CONTAINED THE RESULTS DESCRIBED HEREIN WILL BE OBTAINED UNDER END-USE CONDITIONS, OR ADVICE. EXCEPT AS PROVIDED IN SUPPLIER'S STANDARD CONDITIONS OF SALE, SUPPLIER AND ITS REPRESENTATIVES SHALL IN NO EVENT BE RESPONSIBLE FOR ANY LOSS RESULTING FROM ANY USE OF ITS MATERIALS, PRODUCTS OR SERVICES DESCRIBE HEREIN. Each user bears full responsibility for making its own determination as to the suitability of Supplier's 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 Supplier's 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 Supplier's standard Conditions of Sale or this Disclaimer, unless any such modification is specifically agreed to in a writing signed by Supplier. 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.

Before purchasing or using any Momentive products, please visit www.siliconeforbuilding.com/legaldisclaimer to view our full product and sales disclaimer. GE is a registered trademark of General Electric Company and is used under license by Momentive Performance Materials Inc. Copyright 2012-2023 Momentive Performance Materials Inc. All rights reserved.

www.siliconeforbuilding.com

CDS: Data Tosseal 83 AMB (04/23)