

SILTRUST™ ECC3011 SOLVENT-FREE CONFORMAL COATING

Product Description

SILTRUST ECC3011 is a one-component, low viscosity silicone conformal coating material that cures on exposure to atmospheric moisture to form a flexible elastomer protective coating. ECC3011 conformal coating cures quickly in ambient conditions without the need for curing equipment, and can achieve faster tack-free time with exposure to mild heat. ECC3011 conformal coating can help reduce the potential for corrosion of electronic components, and under certain test conditions* has been found to surpass other polymers such as acrylics, polyurethane, polyolefin and other silicone polymers in corrosion prevention.

Key Features and Typical Benefits

- Fast tack-free time
- Solvent-free formulation
- Contains UV indicator for ease in inspection under black light Continuous operating temperature range of -40 ~ 150 °C
- Flame retardant: UL94V-0 certified (File No. E135148)
- Meets IEC60068-2-52 Severity 5 standard for Salt Spray performance
- Meets IEC60068-2-60 Method 4 standard for Mixed Gas Corrosion performance Meets IPC-CC-830B / MIL-I-46058C standard for Appearance, Fluorescence, Thickness, Flexibility, Dielectric Withstanding Voltage, Moisture and Insulation Resistance, Thermal Shock, Temperature and Humidity Aging.

Typical Physical Properties (JIS K 6249)

<u>Property</u>	<u>Unit</u>	<u>Value</u>
Uncured Properties		
Appearance		Translucent
Viscosity (23 °C)	mPa·s	110
Tack-free time ⁽¹⁾ (23 °C, 50% RH)	min	3
Cure Time ⁽²⁾ (23 °C, 50% RH)	min	10
Cure Time ⁽²⁾ (60 °C, 15% RH)	min	2

(1)Thickness:100µm

(2)Thickness: 100µm, 180 °peel

Typical properties are average data and are not to be used as or to develop product specifications.

Potential Applications

- Conformal coating of electrical and electronic parts
- Moisture-proof coating of circuit boards
- Thin section potting of electrical and electronic parts

*Based upon comparative tests performed by or contracted by Momentive and conducted in 2016 according to IEC standards for salt spray and mixed gas corrosion tests, using a sample of select non-Momentive competitive product offerings.

General Considerations for Use

- Substrate surface should be thoroughly cleaned with a suitable solvent such as alcohol, xylene methyl ethyl ketone (MEK) etc.
- Wear eye protection and protective gloves as required while handling.
- Adequate ventilation must be maintained in the work area at all times.

General Considerations for Use

- 1kg can in case of 10
- 18kg pail
- 18kg bladder pack

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 should review the latest Safety Data Sheet (SDS) and label for product safety information, safe handling instructions, personal protective equipment, if necessary, emergency service contact information, and any special storage conditions required for safety. Momentive Performance Materials (MPM) maintains an around-the-clock emergency service for its products. SDS are available at www.momentive.com or, upon request, from any MPM representative. For product storage and handling procedures to maintain the product quality within our stated specifications, please review Certificates of Analysis, which are available in the Order Center. Use of other materials in conjunction with MPM products (for example, primers) may require additional precautions. Please review and follow the safety information provided by the manufacturer of such other materials.

Limitations

Customers must evaluate Momentive Performance Materials products and make their own determination as to fitness of use in their particular application(s).

Contact Information

Email

commercial.services@momentive.com

Telephone

Americas

+1 800 295 2392
Toll free*
+704 805 6946
Direct Number

*All American
countries

Latin America

Brazil
+55 11 4534 9650
Direct Number

Mexico
+52 55 2169 7670
Direct Number

EMEAL- 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

ASIA PACIFIC

China
800 820 0202
Toll free
+86 21 3860 4892
Direct number

Japan
Email
Sales-JP.Silicones@momentive.com

Korea
+82 2 6201 4600
Direct number

Lanka.

South East Asia, Australia & New
Zealand
+60 3 8309 8088
Direct number*

*South East Asia countries (Malaysia,
Singapore, Thailand, Indonesia,
Vietnam, Philippines, Cambodia,
Myanmar / other countries located in
Pacific region).

For literature and technical assistance, visit our website at: www.momentive.com

DISCLAIMER:

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 (ii) AS TO THE EFFECTIVENESS OR SAFETY OF ANY DESIGN INCORPORATING ITS PRODUCTS, MATERIALS, SERVICES, RECOMMENDATIONS, 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 DESCRIBED 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 of Supplier 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.

The use of the "™" symbol designates registered or unregistered trademarks of Momentive Performance Materials, Inc. or its affiliated companies. Momentive and the Momentive logo are trademarks of Momentive Performance Materials, Inc.



2750 Balltown Road,
Niskayuna
NY 12309 USA
momentive.com