

SILTRUST™ ECS0601 LOW-VOLATILE SILICONE COATING

Description

SILTRUST ECS0601 is a one-component, low viscosity, low volatile silicone coating, which cures at room temperature to an elastomeric rubber upon exposure to humidity in the air. ECS0601 has good adhesion to many substrates including metals, plastics, ceramics and glass without the use of primers.

Key Features and Typical Benefits

- Low volatiles
- Non-corrosive
- Room temperature condensation cure
- Fast cure
- Low viscosity (solventless)
- Low odour cure; releases an alcohol vapour during curing
- Excellent adhesion to a wide range of substrates
- Low ionic impurities
- UL94HB recognized (File No: E56745)

Typical Physical Properties

Property	Unit	Value
Typical Uncured Properties		
Appearance		Flowable white
Viscosity at 23°C,	Pa·s	1.4
Tack-free Time at 23°C	minutes	7
Typical Cured Properties (3 days at 23 °C / 50% RH)		
Appearance		White Elastic rubber
Density	g/cm ³	1.01
Hardness (Type A)		25
Tensile strength	MPa	0.8
Elongation	%	150
Adhesive strength ⁽¹⁾	MPa	0.3
Low Molecular Siloxanes(D ₄ -D ₁₀)	wt %	0.01
Volume resistivity	Ω·cm	2.0 x10 ¹⁵
Dielectric strength	kV/mm	20
Dielectric constant (60 Hz)		2.6
Dielectric loss (60 Hz)		0.002
Impurities ppm	Na ⁺	<2
	K ⁺	<2
	Cl ⁻	<2

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

(1)Glass Lap Shear

Potential Applications

- Moisture proof coating of electrical and electronic parts (Conformal coating)
- Thin section potting of electrical and electronic parts.
- Coating of LCD electrodes

ADHESION PERFORMANCE

SUBSTRATE	PRIMERLESS ADHESION
Aluminum	○
Copper	○
Phenolic resin	○
Epoxy resin	○
Unsaturated polyester resin	○
ABS resin	○
Polyamide	○
Polycarbonate	○
Polyphenylene ether	○
Polyethylene	×
Polytetrafluoroethylene	×
Glass	○

○: Excellent (Cohesive failure) ×: Poor (Adhesive failure)

Note: Test data. Actual results may vary.

INSULATION RESISTANCE TEST

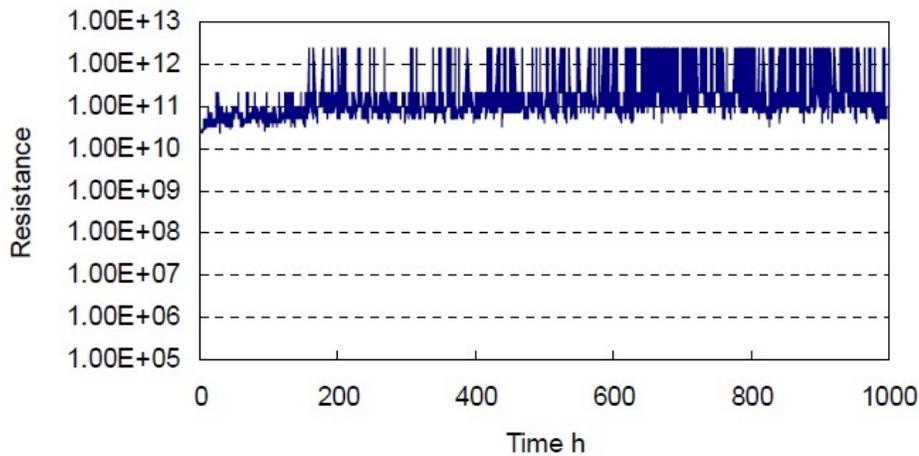
Test condition

Comb pattern test coupon (Copper, pitch: 0.318mm)

Coating thickness: 0.2mm

Condition: 85°C, 85%RH

Voltage: DC20V



Note: Test results. Actual results may vary.

Processing Recommendations

Surface Preparation

SILTRUST ECS0601 will bond to many clean surfaces without the aid of primers. These surfaces typically include many metals, glass, ceramic, silicone rubber and some rigid plastics.

Where adhesion is required, surfaces should be thoroughly cleaned with a suitable solvent such as naphtha or methyl ethyl ketone (MEK) to remove dirt, oil and grease. The surface should be wiped dry before applying the adhesive sealant.

When solvents are used, proper safety precautions must be observed.

Availability

SILTRUST ECS0601 is available in 100g tubes and 333ml cartridges.

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 applications.

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