



ECS0601

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Description

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. This product, which has a quick surface cure and is non-corrosive to metals, including sensitive metals such as copper, emits no harsh odours during cure and has good adhesion to a wide range of substrates.

Key Features and 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

Typical Physical Properties

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 @ 23°C / 50% RH)		
Appearance		White Elastic rubber
Specific gravity	g/cm ³	1.01
Hardness	Shore A	25
Tensile strength	MPa	0.8
Elongation	%	150
Adhesive strength (AL/AL)	MPa	0.3
Low Molecular Siloxanes(D4-D10)	wt %	0.01
Electrical Properties (cured)		
Volume resistivity	ohm-cm	2x10 ¹⁵
Dielectric strength	kV/mm	20
Dielectric constant (60 Hz)		2.6
Dielectric loss (60 Hz)		0.002

Potential Applications

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

Patent Status

Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute a 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

The shelf life will be indicated by the 'use before date' on the associated documents with a minimum of 6 months when stored in the original unopened containers below 27° C.

Customers should review the latest Material Safety Data Sheet (MSDS) and label for product safety information, safe handling instructions, personal protective equipment if necessary, and any special storage conditions required for safety. MSDS are available at www.momentive.com or, upon request, from any Momentive Performance Materials (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.

Processing Recommendations

Surface Preparation

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.

Limitations

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

Availability

ECS0601 is available in cases containing 10x 340gram cartridges and 20x100 gram tubes.

Contact Information

For product prices, availability, or order placement, contact our customer service by visiting momentive.com/ContactSilicones.

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

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