

SEMICOSIL[®] 964



Moisture Curing Silicone Rubber (RTV-1)

SEMICOSIL[®] 964 is a RTV-1 amine cure system that cures on contact with moisture in the air to a translucent coating.

Properties

- Solvent-free
- CO₂ accelerable
- Excellent adhesion to most substrates
- Flame retardant, UL 94V-0
- Formulated and tested to meet IPC CC-830 B

Technical data

Properties Uncured

Property	Condition	Value	Method
Specific gravity	25 °C	0.99 g/cm ³	-
Viscosity, dynamic	25.0 °C	800 cP	Brookfield
Skin formation time ⁽¹⁾	-	2 min	-
Skin formation time ⁽²⁾	-	20 min	-
Curing time	-	45 min	-
Appearance	-	Blue Liquid	ASTM D 624
Solid constituent	-	100 %	-

¹at 25°C/50%RH, 0.5% CO<TG>2</>

²at 25°C/50%RH, 5 mils

These figures are only intended as a guide and should not be used in preparing specifications.

Properties Cured

Cure Conditions - 7 days at 25 °C, 50% relative humidity

Property	Condition	Value	Method
Hardness Shore A	-	27	ASTM D 2240
Tensile strength	-	100 N/mm ²	ASTM D 412
Elongation at break	-	100 %	ASTM D 412
Volume resistivity	-	10 Ohmcm	-
Dielectric constant	1 kHz	2.6	IEC 60250
Dielectric strength	-	500 V/mil	IEC 60243
Dielectric strength	-	20 kV/mm	-

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All the information provided is in accordance with the present state of our knowledge. Nonetheless, we disclaim any warranty or liability whatsoever and reserve the right, at any time, to effect technical alterations. The information provided, as well as the product's fitness for an intended application, should be checked by the buyer in preliminary trials. Contractual terms and conditions always take precedence. This disclaimer of warranty and liability also applies particularly in foreign countries with respect to third parties' rights.

Application details

The performance of SEMICOSIL® 964 is dependent upon many factors, including the application method, the thickness of the layer deposited, the substrate, the curing atmosphere. **Surface Preparation** The surface to be coated should be clean and free of dirt and other contaminants. SEMICOSIL® 964 is not recommended for use with acrylic or polycarbonate substrates. Application SEMICOSIL® 964 is best applied by spraying or dipping. A coating thickness of 5 to 10 mils is recommended for best results. Application equipment may be cleaned using organic solvents such as mineral spirits. All traces of solvent should be removed from application equipment before using SEMICOSIL® 964. Because SEMICOSIL® 964 begins to cure on contact with atmospheric moisture, all containers should be tightly closed when not in use. Dip tanks should be no more than half full and blanketed with a dry, inert gas such as nitrogen. If a skin should form over the surface it may be removed by careful skimming. Spray equipment and brushes should be washed and wiped clean with organic solvents such as naphtha or mineral spirits after use. **Curing** Curing will vary depending on exposure conditions, e.g., a 5 mil coating cured with 0.5% CO₂ and 50% RH will be cured through in 10 minutes. Optimum cure conditions for full cure of a 128 micron (5 mil) thick film in less than five minutes.

- Relative humidity: 10 to 35%
- 2 level: 0.1 to 1% CO
- Exhaust rate: > 450 cfm

SEMICOSIL® 964 is a sprayable conformal coating designed to protect electronic circuits from environmental influences.

Packaging and storage

Storage

The "Best use before end date" of each batch is shown on the Certificate of Analysis. Storage beyond the date specified on the Certificate of Analysis does not necessarily mean that the product is no longer usable. In this case however, the properties required for the intended use must be checked for quality assurance reasons.

Safety notes

For specific information regarding safe handling of this material, please refer to the Safety Data Sheet.

QR Code SEMICOSIL® 964



For technical, quality or product safety questions, please contact:

Wacker Chemie AG, Hanns-Seidel-Platz 4, 81737 Munich, Germany
productinformation@wacker.com, www.wacker.com

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