

POWERSIL[®] INSULATOR FINISH

Moisture Curing Silicone Rubber (RTV-1)

POWERSIL[®] INSULATOR FINISH is a self levelling, one-component silicone rubber, which cures at room temperature under the influence of moisture in the air. The elastomer has good mechanical and very good electrical properties.

Properties

- acetic acid-curing system
- very good resistance to weathering and air pollution

Specific features

- Primerless adhesion to most substrates
- Resistant to tracking and erosion
- Self-levelling

Technical data

Properties Uncured

Property	Condition	Value	Method
Color	-	light gray	-
Viscosity, dynamic	-	200000 mPa·s	DIN EN ISO 3219
Curing time	23 °C 50 % r.h	12 h/mm	-
Skin formation time	23 °C 50 % r.h	10 - 30 min	-

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

Properties Cured

Curing conditions: 2 mm, 14d / 23°C / 50% RH

Property	Condition	Value	Method
Color	-	light gray	-
Density in water	23 °C	1.09 g/cm ³	DIN EN ISO 1183-1 A
Hardness Shore A	-	20	DIN ISO 48-4
Tensile strength	-	1.4 N/mm ²	ISO 37 type 1
Elongation at break	-	500 %	ISO 37 type 1
Volume resistivity	-	1 x 10 ¹⁵ Ohm·cm	IEC 62631-3-1
Permittivity	50 Hz	3.0	IEC 62631-2-1
Dielectric strength	-	20 kV/mm	IEC 60243-1
Tracking resistance	-	1A 3.5	IEC 60587
Tear strength	-	5.0 N/mm	ASTM D 624 B

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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.

Applications

- Insulators

Application details

Repair material for silicone rubber sheds and housings of longrod and hollow core insulators, arresters and bushings.

Processing

POWERSIL® INSULATOR FINISH shows good primerless adhesion to cured silicone rubber and many substrates. We recommend to run preliminary tests to optimize conditions for the particular application.

Packaging and storage

Storage

The 'Best use before end' date of each batch is shown on the product label.

Storage beyond the date specified on the label 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

During vulcanization of POWERSIL® INSULATOR FINISH a total of 4 % by weight of acetic acid is being split off. These vapors should not be inhaled for long periods or in high concentration. Work areas should therefore be well ventilated. Contact of unvulcanized silicone rubber with eyes mucous membranes must be avoided as this would cause irritations. However if it happens, rinse thoroughly with water.

Comprehensive instructions are given in the corresponding Material Safety Data Sheets. They are available on request from WACKER subsidiaries or may be printed via WACKER web site <http://www.wacker.com>.

QR Code POWERSIL® INSULATOR FINISH



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

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