

Silicone Potting Compound 019

A two-component condensation compound that cures at room temperature, providing excellent protection for electrical and electronic systems. Thanks to its exceptional fluidity and ease of application, Potting Compound 019 is an ideal choice for both professionals and hobbyists. The product forms a durable coating resistant to environmental conditions, effectively protecting against moisture, dust, and mechanical damage.

Product features:

- ✔ protects against moisture, dust, and external factors,
- ✔ high electrical resistance,
- ✔ dry to the touch after curing,
- ✔ does not peel off the surface after curing, even during cyclic heating,
- ✔ easy application and even spreading,
- ✔ safe formula for delicate electronic surfaces.

Applications:

- ✔ telecommunications,
- ✔ motion control,
- ✔ automotive industry,
- ✔ electronic and electrical systems,
- ✔ computers and peripheral devices,
- ✔ power supplies, converters, and power semiconductors.



Physicochemical properties (A & B)

Appearance	Milky liquid paste (A) Colorless liquid (B)
Density at 25°C	~1.2 g/cm ³ (A) 0.94 g/cm ³ (B)
Viscosity at 25°C	~45000 cP (A) ~0.53 cP (B)
pH	6-8 (A)
Shelf life	12 months

Properties of the mixture 100:6 (A+B)

Density at 25°C	~1.2 g/cm ³
pH of aqueous extract (mixture)	7±1
Volatile content (mixture)	3%
Working time at 25°C	~30 minutes
Curing time at 25°C	Max. 48h

Properties of the mixture after 100h curing

Consistency	Milky solid rubber
Operating temperature range	-50°C to 180°C
Shore A hardness	58 [A]
Volume resistivity at 20±5°C and 65±5% RH (ASTM D257)	1*10 ¹² Ω x cm
Surface resistivity at 20±5°C and 65±5% RH (ASTM D257)	1*10 ¹³ Ω
Dielectric strength at 20±5°C, 65±5% RH (PN-EN 60243-1)	15.0 kV/mm
Dielectric dissipation factor tg δ (ASTM D150)	0.015 (10 ⁶ Hz)
Relative permittivity ε_r (ASTM D150)	3 (10 ⁶ Hz)
Tracking resistance (PN-EN 60112:2003)	600 CTI [V]

Compatibility:

Silicone Potting Compound 019 is chemically neutral and compatible with most materials used in electronics, such as metals, plastics, and glass. It maintains its properties across a wide range of environmental and thermal conditions.

Application method	
Without degassing	Yes
With degassing in a vacuum chamber	Yes

Usage instructions:

Restricted to professional users. Read SDS carefully prior to use.

Before application, make sure the surface is clean, degreased, and dry to ensure maximum effectiveness of the potting compound. The components (base compound A and catalyst B) should be mixed in the recommended weight ratio **100:6** (e.g., 100 g A + 6 g B or 1 kg A + 60 g B) until a uniform consistency is achieved. Convenient kits with pre-measured components are available, making mixing easier.

For best results, it is recommended to place the prepared mixture in a vacuum chamber (30–60 cm from the bottom of the chamber) to remove trapped air bubbles. During this process, the volume will first increase (for about 5 minutes), then decrease. After an additional 2 minutes, the potting compound is ready for use.

The prepared mixture should be evenly poured over the components, ensuring that all areas are covered. Leave the device to cure undisturbed for approximately 24 hours at room temperature or for several hours at an elevated temperature (approx. 60°C). Ensure proper air circulation to allow the dissipation of ethyl alcohol released during curing.

Complete curing takes about 100 hours at room temperature, during which the compound achieves its full mechanical and protective properties. Once cured, it forms a durable, flexible silicone-rubber-like layer that effectively protects the circuit against moisture, dust, and mechanical damage.

If a vacuum chamber is not available, the compound can be used without degassing. The final result in such cases depends on the care taken during mixing and application.

Package

Metal Box	100 g (ART.AGT-201) - 4 pcs.* 1 kg (ART.AGT-261) - 1 pc.*
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*Quantity of pcs. in a bulk package

Storage:

Store in original packaging, in dry storage areas, at a temperature not exceeding 30°C.

Technical support:

AG TermoPasty provides technical support, answering questions about the technical specifications and applications of our products. Please contact us via email at info@termopasty.pl.

Note:

The data presented in this document reflect our current state of knowledge and describe the typical properties and applications of the product. However, the responsibility for determining the suitability of this product for specific applications lies with the user. AG TermoPasty is not liable for the results of the product's use, as the conditions of its application are beyond our control.

