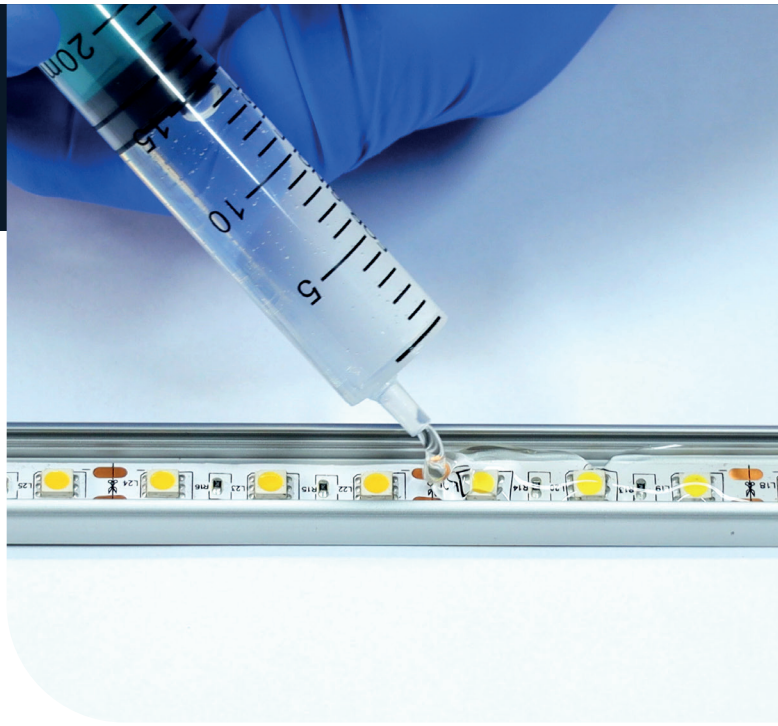
TermoPasty®

TECHNICAL DATA SHEET

Silicone Potting Compound 031



A two-component addition-curing potting compound that, once cured, forms an elastic, crystal-clear gel. Thanks to its properties, it provides excellent protection against moisture, vibrations, and UV radiation, making it an ideal choice for sealing delicate electronic systems such as LED modules. This solution ensures durability and reliability even in the most demanding conditions.

Product features:

- crystal-clear transparency,
- elasticity after curing,
- UV radiation resistance,
- easy application and uniform spreading over the surface,
- safe formula for delicate electronic surface.

Applications:

- LED modules,
- telecommunications,
- motion control,
- automotive electronics,
- electronic and electrical systems,
- power supplies, energy converters, and power semiconductors.

Physicochemical properties (A & B)	
Appearance	Transparent liquid
Density at 25°C	~0.98 g/cm^3
Viscosity at 25°C	~3000 cP
Shelf life	12 months
Properties of the mixture 3:2 (A+B)	
Density at 25°C	~3000 cP
Working time at 25°C	~70 minutes
Curing time at 25°C	Max. 24h
Properties of the mixture after 24h curing	
Consistency	Soft transparent gel
Operating temperature range	-50°C to 180°C

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Compatibility:

Silicone Potting Compound 031 is chemically neutral and compatible with most materials used in electronics. Its elastic coating does not cause mechanical or chemical damage, ensuring safe protection of delicate components.

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

Usage instructions:

Restricted to professional users. Read safety data sheet carefully prior to use.

Before application, make sure the system is clean, degreased, and dry to ensure maximum adhesion and effectiveness of the potting compound. The contents of both components (Part A and Part B) should be mixed in a **3:2** ratio (by weight) and stirred manually or mechanically to obtain a uniform consistency. The components are supplied in 100 g sets (60 g A + 40 g B) and 1 kg sets (600 g A + 400 g B) in the correct mixing proportions, which facilitates the preparation process.

For best results, it is recommended to place the prepared mixture in a vacuum chamber (30–60 mmHg) for about 5 minutes to remove any air bubbles. During the vacuuming process, the mixture initially expands by about 5 times and then returns to its original volume. After the vacuuming process, additional mixing before application is advised.

The prepared mixture should be evenly poured over the system, ensuring that all elements are thoroughly covered. Then, leave the potted system to cure at room temperature for approximately 24 hours, allowing the material to fully harden. After curing, the resulting elastic, transparent gel forms a durable layer that effectively protects the system against external factors.

If a vacuum chamber is not available, the mixture can also be used without the degassing process. However, the final result will depend on the care taken during application.

Package	
Metal container	100 g (ART.AGT-222) - 4 pcs.* 1 kg (ART.AGT-264) - 1 pc.*

*Quantity of pcs. in a bulk package

Storage:

Store in sealed containers in dry, well-ventilated areas, away from heat and ignition sources, as well as direct sunlight. Do not expose to temperatures exceeding 50°C/122°F. Protect from electrostatic discharges.

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.