

DESCRIPTION

The PERMACOL 2812 A/B is a 2-component silver filled electrical conductive adhesive on epoxy basis. This adhesive cures at roomtemperature, however for most applications it is cured at elevated temperatures to reach a lower volume resistance. The adhesive bonds good to different materials. After curing the adhesive is stable and obtains good resistance to moisture and heat. This product is flexible, which makes it ideal for foil applications.

Technical details	
Basis	Epoxy
Colour	Silver
Viscosity mixture	20.000 mPa.s (D=30/s 23°C)
Mixing ratio	100 : 100 by weight
Particle size	<50 µm
Pot life	1-2 hrs at 20°C
Curing time	30 min at 100°C
	60 min at 80°C
	8 hrs at 70°C
	14 hrs at 50°C
	48 hrs at 20°C
Hardness	70 shore D
Volume resistance	< 5×10 ⁻³ Ω.cm (cured at 100°C)
Temperature resistance	-40°C to 120°C
Temperature resistance (after curing 30 minutes at 100°C)	-40°C to 160°C

USAGE INSTRUCTIONS

Make sure the substrates are clean and free from dust, water, grease, fingerprints, oil, etc. Depending on the storage, both components can sag. Before using the product the components need to be stirred separately.

BENEFITS

- High conductive properties
- For dispensing and screen printing
- Moisture resistant
- Flexible
- RoHS und REACH compatible

Weigh the components according to the mixing ratio and mix until a homogeneous colour is reached, or use a double syringe and mix the components until a homogeneous colour is reached. Curing at temperatures below 70°C will result in a higher volume resistivity. To obtain better electric conductivity, it might be beneficial to cure at an elevated temperature after room temperature curing.

CLEANING

Uncured adhesive can be removed and cleaned by means of solvents as Ethanol, Acetone, Isopropanol (IPA) or MEK. Cured adhesives must be removed mechanically.

STORAGE

Store in its original packaging frost free and dry. See packaging for the expiration date. Shelf life: 12 months. Cartridges have a shelf life of 6 months at -18°C.

SAFETY

Use protective gloves to avoid direct contact with the skin. Check the Material Safety Data Sheet for specific safety information.

PACKAGING

The PERMACOL 2812 A/B is available in different kinds of cartridges and jars.

Legal Disclaimer

The products of Permacol (the "Supplier"), are sold subject to the supplier's standard conditions of sale, which are included in applicable sales agreements, printed on the back side of invoices, or available upon request. Although the information, recommendations or advice contained herein is given in good faith, supplier makes no warranty or guarantee, express or implied, (I) that the results described herein will be obtained under end-use conditions, or (II) as to the effectiveness or safety of any design incorporating supplier's products, recommendations or advice. Nothing in this or any other document shall alter, vary, supersede or operate as a waiver of any of the supplier's standard conditions of sale.

Each user bears the full responsibility for making its own determination as to the suitability of Supplier's products, recommendations or advice for its own particular purpose. Each user must identify and perform tests and analyses sufficient to assure it that its finished parts will be safe and suitable for use under end-use conditions. Because actual use of products by the user is beyond the control of Supplier, such use is within the exclusive responsibility of the user, and Supplier cannot be held responsible for any loss incurred through incorrect or faulty use of the products. Further, no statement contained herein concerning a possible or suggested use of any product is intended or should be construed to grant any license under any patent or other intellectual property right of Supplier, or as a recommendation for the use of such material in the infringement of any patent or other intellectual property right.