



422B - SILICONE CONFORMAL COATING

MG Chemicals Silicone Conformal Coating is a clear, flexible coating ideal for protecting electronic circuits in higher temperature environments and applications requiring extreme flexibility.

This coating protects electric circuits against moisture, dirt, dust, and thermal shocks that could corrode, short circuit, or otherwise damage the electric components. It insulates against high-voltage arcing, shorts, static discharges, and allows traces to be put closer together helping with miniaturization. As well, it protects against thermal shock, and puts very little stress on components during temperature cycling.

Compared to typical silicones, this product is much easier to work with, and offers extended shelf life, a faster cure time, and it is easier to remove or rework. It is available in both aerosol and liquid forms, and may be applied by spraying, dipping, or brushing.



| Catalog Number | Sizes Available | Description |
|----------------|-------------------|-------------|
| 422B-55ML | 55 ml (1.9 fl oz) | Liquid |
| 422B-340G | 340 g (12 oz) | Aerosol |
| 422B-1L | 945 mL (1 qt) | Liquid |
| 422B-4L | 3.8 L (1 gal) | Liquid |
| 422B-20L | 19 L (5 gal) | Liquid |
| 422B-P | 5 mL (0.16 fl oz) | Pen |

Features

- Certified UL 94V-0 (File # E203094)
- Fast cure—tack free in 6 min at room temperature, full cure in 20 min at 65 °C
- Extremely flexible
- Service temperature range -50°C to +150°C
- Suitable for robotic spray equipment, custom formulations available for specific machines
- Easy to inspect: fluoresces blue at 437 nm ± 65 nm under UVA light
- Extended Shelf Life avoids worries about premature hardening and wastage associated with typical silicones
- Easy rework and repairs—can solder through
- Removable with Cat. No. 8310 (gel) or 8312 (liquid) Conformal Coating Stripper
- Used in spray equipment - Nordson and PVA
- Better temperature resistance than a typical acrylic (150 - 160)

Applications

- Printed Circuit boards
- LED Boards
- Electric generators, motors and transformers
- Relays
- High temperature environments