

## MS-465C / 467C Acrylic Conformal Coating

### Description:

A tough, fast drying, abrasion resistant coating providing protection against caustics and corrosives. Methacrylate copolymer resin offers excellent resistance to water, alcohol, dilute acids & alkalis, chemical fumes and corrosive or oxidizing environments. It offers excellent weatherability and superior abrasion resistance.

- Solderable for ease of repair
- Resistance to water, alcohol, diluted caustics
- 100% Non-flammable formulation
- Fast Drying & Easy Curing Acrylic Coating
- RoHS2 & RoHS3 Compliant

### Preparation/Application/Cure Schedule

Performance of MS-465C and MS-467C and its cured film is dependent on process controls used in application of the coating. Cleanliness of the substrate is a major factor in promoting adhesion and preventing under-film corrosion. Assemblies must be clean, oil-free, and dry. For specific recommendations, please contact our Technical Support Team.

### Application Procedure:

Application should be done in a well-ventilated area. Proper safety equipment and chemical resistant gloves are strongly recommended.

### MS-465C Application

1. Allow 48 hours minimum to reach room temperature before using cans stored or received during cold weather.
2. **Note:** Do not shake can aggressively. Hold can 6-8 inches away from the assembly and apply a medium-light coating. Coating must be applied wet and allow to dry on surface of the assembly.
3. Allow coating to dry for 10 minutes at room temperature.
4. Apply 1-2 additional medium wet coats with 10 minutes between each coat.
5. A total film cure thickness of 2+/- 1ml is recommended. Fluorescent when viewed with ultraviolet light.

### MS-467C Bulk Application

Application methods: Spray, brush, or dip. All handling and application equipment that is in contact with MS-467C must be clean, oil-free, and most importantly moisture free.

Note: For Spray Application: If using a compressed air-based spray equipment, the proper filtration of the source air supply should be in place. Failure to have contaminant, oil and moisture free air can affect product performance and final film properties. When using spray equipment, application of a wet-film is critical to achieve the proper thin-film coating and the desired performance. Adjust your spray equipment and spray distance so an even uniform, wet coating is applied. Once spraying is complete, immediately purge and solvent flush the spray equipment. This will prevent clogging and premature equipment blockage.

1. MS-467C should be applied at room temperature.
2. MS-467C is ready-to-use product. Do not dilute or modify the product prior to use.
3. Coats should be applied wet and allowed to dry on the surface for 10 minutes.
4. Apply 1-2 additional medium wet coats with 10 minutes between each coat.
5. A total cured film thickness of 2+/- 1ml is recommended. Fluorescent when viewed with ultraviolet light.

### Cure Schedule

Final film properties can be achieved by room temperature cure only. Coating is fully cured in 24 hours.

### Removal:

Acrylic conformal coating can be removed with MS-114D or MS-115 Conformal Coating Strippers.

### Coverage

At a 2 mil. thickness, coverage is approximately 7.6 square feet per 14 oz. aerosol can of MS-465C, and 95 square feet per gallon of MS-467C.

## Cured Electrical Properties

Dielectric Strength, volts/mil	2000
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## Cured Physical Properties

Glass Transition Temperature	168°F/76°C
Tukon Hardness, Knoop No.	13
Acid Number	5
Tensile Strength (23°C/73°F @ 50% RH)	1,600 psi
Elongation at Break (23°C/73°F @ 50 RH)	0.50%
Operating Temperature	23°F/-5°C to 168°F/76°C

## VOC Content

MS-465C: 170 g/l

MS-467C: 171 g/l

Miller-Stephenson offers urethane, acrylic and silicone conformal coatings available in aerosol and bulk liquid.

**Safety Data Sheets (SDS) are available upon request.**

**LIMITATION OF LIABILITY AND REMEDIES:** Manufacturer warrants that, at the time of shipment by the Manufacturer, this product is free from defect in material and manufacture. If the product is proved to be defective, the exclusive remedy, at Manufacturer's option, shall be refund of the purchase price or replacement of the defective product, provided written notice of the defect is given no later than one year after the date of shipment by the Manufacturer. Manufacturer shall not otherwise be liable for loss or damages whether direct, indirect, incidental or consequential, regardless of the legal theory asserted, including negligence and strict liability. **Manufacturer expressly disclaims all implied warranties, including the implied warranty of merchantability and the implied warranty of fitness for a particular purpose. There are no warranties which extend beyond the description on the face hereof**

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