



Product Information

www.miller-stephenson.com

MS-452N Protective Varnish Coating

Description:

MS-452N, Protective Varnish is designed for adverse environmental conditions. It offers excellent moisture, oil, chemical, and fungal resistance with superior abrasion protection. It also provides electrical insulation to increase the reliability of printed circuit boards.

It dries to a tough film. Its moisture and fungus resistant properties make it ideal for use on switch bases, motor frames, field coils, printed circuits, completed electric assemblies.

Application:

MS-452N can be applied by dipping, brushing, or spraying. For spraying applications, it is usually thinned 20-25% by weight with Xylene. The film thickness should be kept to no more than 1.5 mils per application. This allows for complete solvent release and proper cure. The resin dries in 30 minutes and is fully cured in 24 hours.

The protective varnish can be removed with MS-114D or MS-115 Conformal Coating Strippers.

Cured Electrical Properties

Dielectric Strength (volts/mil) DRY, ASTM D115	1800
Dielectric Strength (volts/mil) WET, ASTM D115	1200

Cured Physical Properties

Resistance:

Water	Excellent
Acid (10% Sulfuric Acid)	Excellent
Alkali (1% Sodium Hydroxide)	Excellent
Salt Water	Excellent
Oil, ASTM D-115	PASS
Corrosive effect on Copper	None

Physical Properties

Highest Operating Temperature	331°F /155°C
Fungus Resistance	Pass
Fluorescent	Under UV light

VOC Content.....569 g/l

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

Safety Data Sheet (SDS) is 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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For product sales: CT 800.442.3424, CA 800.771.8161
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