



# Product Information

[www.miller-stephenson.com](http://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 good flexibility. It also provides electrical insulation to increase the reliability of printed circuit boards.

It dries to a tough, flexible film. Its moisture and fungus resistant properties make it ideal for use on stators, transformers, field coils, printed circuits, completed electric assemblies, junction boxes and cables.

### 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 resin dries in 30 minutes and is fully cured in 24 hours.

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

### Cured Electrical Properties

Dielectric Strength (volts/mil) DRY	1800
Dielectric Strength (volts/mil) WET	1200

### Cured Physical Properties

#### Resistance:

Water	Excellent
Acid (10% Sulfuric Acid)	Excellent
Alkali	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

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

**Safety Data Sheet (SDS) is available upon request.**

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