

Description

Our 4226 *Super Corona Dope* is a highly insulating coating with excellent arc and corona resistance. This low viscosity, one part varnish coating is easy to use and adheres well to many substrates.

Applications & Usages

The 4226 insulates transformers, coils, motor windings, and various electric generator parts against arc and corona. As well, it protects these parts from corrosion and moisture.

Benefits and Features

- **High dielectric strength**—4 100 V/mil (dry); 3 000 V/mil (wet)
- **Excellent moisture resistant**
- **Excellent finish**—tough, flexible, glossy, and durable transparent coat
- **Good adhesion**

Usage Parameters ^{a)}

<i>Properties</i>	<i>Value</i>
Tack Free	10 min
Recoat Time	4 h
Dry to Handle	20 min
Full Cure @22 °C [72 °F]	2 to 3 days
Full Cure @80 °C [176 °F]	1 h
Full Cure @110 °C [230 °F]	30 min
Shelf Life ^{b)}	5 y
Theoretical 1 L Coverage ^{c)}	<78 000 cm ² [<84 ft ²]
Recommended Thickness	25 to 38 µm [1 to 1.5 mil]

a) Cure times assume a thickness of 1 mil and standard conditions.

b) After date of shipment

c) Idealized estimate based on dip coat method and 90% transfer efficiency

Temperature Ranges

<i>Properties</i>	<i>Value</i>
Constant Service Temperature	-40 to 180 °C [-40 to 356 °F]
Storage Temperature ^{d)}	25 °C [104 °F]

d) The product should not be exposed to direct sunlight.

Chemical Components

Name	CAS Number
Modified Alkyd Resin	<i>proprietary</i>
Xylene	1330-20-7
Ethyl benzene	100-41-4
Toluene	108-88-3
Cumene	98-82-8

Health, Safety, and Environmental Awareness

Please see the 4226-Liquid **Safety Data Sheet** (SDS) for more details on transportation, storage, handling and other security guidelines.

Environmental Impact: The 4226 formulation has a volatile organic content of 65% [604 g/L]. The coating is RoHS compliant.

Health and Safety: The liquid is flammable and should be kept away from flames and other ignition sources. As with most paint materials, avoid breathing in fumes or direct contact with the material. Solvents therein can cause irritation and other symptoms like headaches, pain, as well as having long term exposure effects.

Use in the open air, in fume hoods, or in well ventilated area. For short or long term (8 hours) at levels of exposures exceeding 100 ppm of xylene or ethyl benzene, use NIOSH approved respirator with organic vapor cartridges rated for this order of concentrations.

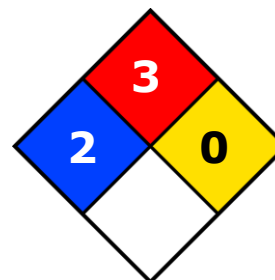
Wear safety glasses or goggles and disposable gloves to avoid exposures. Wash hands thoroughly after use.

The cured coating presents no known hazard.

HMIS® RATING

HEALTH:	*	2
FLAMMABILITY:		3
PHYSICAL HAZARD:		0
PERSONAL PROTECTION:		

NFPA® 704 CODES



Approximate HMIS and NFPA Risk Ratings Legend:

0 (Low or none); 1 (Slight); 2 (Moderate); 3 (Serious); 4 (Severe)

Application Instructions

The 4226 can be easily applied by dip or spray gun. Follow the procedure below for best results. The product may be diluted with xylene or other similar low cost solvents.

Prerequisites

- Ensure that the substrate is free of scratches, gouges, and raised metal burrs
- Ensure surface to be coated is clean: oil free, dust free, and rust free

To coat by dipping method

1. Hang PCB on a dipping arm
2. Lower board in dip tank
3. Immerse at least 12" below the top to minimize entrapments
4. Let dwell for 2 minutes to allow for penetration
5. Withdraw slowly at about 10 cm/min [5 in/min]
6. Let air dry 4 h before recoat to avoid solvent entrapment
7. Repeat steps 1 to 6 if higher thickness required

NOTE: Dipping in undiluted 4226 typically yields 1 to 1.5 mil dry film thickness per coat.

To coat by spray gun method

1. Mix thoroughly, and spray a test pattern.
This step ensures good flow quality and helps establish appropriate distance to avoid runs.
2. At a distance of 20 to 25 cm (8 to 10 inches), spray a thin and even coat onto the part. For best results, use spray-and-release strokes with an even motion to avoid excess paint in one spot.
3. If additional coats are required, rotate the part 90° to ensure good coverage.
4. Wait at least 4 hours at room temperature before recoat. The delay avoids trapping solvent between coats.
5. Apply additional coats until desired thickness are achieved. (Go to Step 1)

NOTE: Dilution with a thinner may be required.

ATTENTION: Using excessive coat thickness can cause defects. Do not heat cure between coats because this causes wrinkling.

To air dry the electric insulation coating

- Let air dry 72 hours

While this product can be air dried, it is highly recommended that you heat cure the product for optimal dielectric properties.

To heat cure

- Wait 1 h or more at room temperature for the coating to dry
- Put in an oven 110 °C [230 °F] for 30 min.
OR
- Put in an oven at 80 °C [176 °F] for 60 min.

Packaging and Supporting Products

<i>Cat. No.</i>	<i>Packaging</i>	<i>Net Volume</i>		<i>Net Weight</i>		<i>Packaging Weight</i>	
4226-55ML	Bottle	55 mL	1.86 fl oz	50.9 g	1.79 oz	0.3 kg ^{a)}	0.6 lb ^{a)}
4226-1L	Can	945 mL	1.99 pt	875 g	1.92 lb	1.1 kg	2.4 lb
4226-4L	Can	3.78 L	1 gal	3.5 kg	7.71 lb	3.8 kg	8.4 lb

a) Case pack of 5



ISO 9001 Registered Quality System.
Burlington, Ontario, Canada QMI File # 004008

Super Corona Dope 4226 Technical Data Sheet

4226-Liquid

Technical Support

Contact us regarding any questions, improvement suggestions, or problems with this product. Application notes, instructions, and FAQs are located at www.mgchemicals.com.

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Warranty

M.G. Chemicals Ltd. warrants this product for 12 months from the date of purchase by the end user. *M.G. Chemicals Ltd.* makes no claims as to shelf life of this product for the warranty. The liability of *M.G. Chemicals Ltd.* whether based on its warranty, contracts, or otherwise shall in no case include incidental or consequential damage.

Disclaimer

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