

4229-Liquid

## **Description**

4229 *Connector Coating* is a solvent-based, modified thermoplastic liquid coating used as a replacement for electrical tape and shrink wrap. It dries to a durable, flexible, moisture resistant, and rubber-like coating to protect exposed wires, metals, and plastics.

4229 insulates and protects electrical connections, valve handles, rope ends, battery terminals, tools, and sheet metal.

## **Benefits and Features**

- Meets ASTM E-96 moisture resistance
- Meets ASTM B-117 salt spray test
- Meets ASTM G53-84 accelerated 10-year weather test
- Highly flexible
- Will not chip or crack
- Good adhesion
- Suitable for use in food facilities as a non-food chemical—certification available on request

## **Usage Parameters**

Properties	Value
Tack Free	5 min
Recoat Time	20 min
Dry to Handle	4 h
Full Cure @25 °C [77 °F]	24 h
Shelf Life	3 y

## **Temperature Ranges**

Properties	Value
Constant Service	-35 to 95 °C
Temperature	[-31 to 203 °F]
Storage Temperature a)	8 to 21 °C
	[46 to 70 °F]

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

# **Cured Properties**

Physical Properties  Color  Moisture Resistant	Method Visual ASTM E-96	Value Black Excellent
Mechanical Properties Hardness Elongation Tensile Strength	Method ISO 868 ISO 527-2 ISO 527-3	Value 70 Shore A 450% 17.9 N/mm² [2 590 lb/in²]
Electrical Properties Dielectric Breakdown Strength	Method IEC 60243-1	Value 11.8 kV/mm [300 V/mil]

Page **1** of **4** 



4229-Liquid

## **Properties of Uncured 4229**

Physical Properties	Method	Value
Viscosity @25 °C [77 °F]		3 970 mm <sup>2</sup> /s
Solids Content (w/w)		35% ±1%
Density		0.83 g/mL
Flash Point	ASTM D93	-19.5 °C [-3.1 °F]
Odor		Aromatic hydrocarbon
		,

# Compatibility

**Adhesion**—The 4229 coating is not compatible with contaminants like water, oil, and greasy flux residues that may affect adhesion. If contamination is present on the substrate, clean the surface first.

## **Substrate Adherence Compatibility**

•	Meta	als

Most plastics

Glass

Epoxy glass

Glass

Concrete

- Fabric
- Foam rubber
- Fiberglass
- Masonry
- Rubber
- Wood

It is always recommended to perform a compatibility test on a non-critical test area prior to large scale applications.

# Health, Safety, and Environmental Awareness

Please see the 4229-Liquid **Safety Data Sheet** (SDS) for more details on transportation, storage, handling and other security guidelines.



4229-Liquid

## **Application Instructions**

The 4229 can be easily applied by dip, spray gun, or brush. Follow the procedure below for best results.

### **Prerequisites**

- Ensure surface to be coated is clean: oil free, dust free, and rust free
- (Optional) Roughen surface with steel wool or fine abrasives to increase adhesion

### To coat by dipping method

- 1. Hang or clamp object on a dipping arm.
- 2. Immerse object slowly.
- 3. Let dwell for 2 minutes to allow for penetration.
- 4. Withdraw slowly at approximately 2.5 cm per 5 seconds.
- 5. Wait at least 20 minutes at room temperature before recoat to avoid solvent entrapment.
- 6. Repeat steps 2 to 6 if higher thickness required.

#### To coat by spray gun method

Industrial airless or pressure pot gun is recommended for large applications. Do not use a Siphon gun.

#### **Spray Setting Recommendation**

Gun Type	Pressure
Airless gun	40 to 60 psi
Pressure pot gun	20 psi

- 1. At a distance of 25 to 30 cm (9.8 to 11.8 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.
- 2. Wait at least 20 minutes at room temperature before recoat to avoid solvent entrapment.
- 3. Repeat steps 1 to 6 if higher thickness required.

**NOTE:** Applying 2 to 3 coats will give approximately 12 mil thickness.

#### To coat by brush method

- 1. Brush surface in one direction only.
- 2. Several coats are recommended. Wait at least 20 minutes at room temperature before recoat to avoid solvent entrapment.
- 3. Repeat steps 1 to 2 if higher thickness required.

**ATTENTION:** Using excessive coat thickness can cause defects.

#### To air dry the coating

Let air dry 24 hours



4229-Liquid

## **Packaging and Supporting Products**

Cat. No.	Packaging	Net Volume		Net Weight		Packaging Weight	
4229-55ML	Bottle	55 mL	1.86 fl oz	45.6 g	1.61 oz	0.4 kg <sup>a)</sup>	0.8 lb <sup>a)</sup>
4229-1L	Can	945 mL	1.99 pt	784 g	1.72 lb	1.1 kg <sup>a)</sup>	2.5 lb <sup>a)</sup>
4229-4L	Can	3.78 L	1 gal	3.13 kg	6.91 lb	4.7 kg	10 lb

a) Case pack of 5

# **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.

Email: <a href="mailto:support@mgchemicals.com">support@mgchemicals.com</a>

Phone: +(1) 800-340-0772 (Canada, Mexico & USA)

+(1) 905-331-1396 (International)

+(1) 905-331-2862 or +(1) 800-340-0773 Fax:

Mailing address: **Manufacturing & Support** 

1210 Corporate Drive

9347-193rd Street Burlington, Ontario, Canada Surrey, British Columbia, Canada

**Head Office** 

L7L 5R6 V4N 4E7

### **Disclaimer**

This information is believed to be accurate. It is intended for professional end users having the skills to evaluate and use the data properly. M.G. Chemicals Ltd. does not guarantee the accuracy of the data and assumes no liability in connection with damages incurred while using it.