

## E-Tec™ 522

### Satin Wax Emulsion Corrosion Coating

**E-Tec 522** is a unique, water-based wax emulsion with outstanding adhesion and durability on various substrates. It dries in about 15 minutes to a satiny film, without losing its wax characteristics or lubricity. It can be used over lightly oiled surfaces and will dry to a tack-free surface. This product provides a temporary protective coating to help prevent corrosion during storage and shipment of parts. **E-Tec 522** is recommended for metal surfaces, i.e. aluminum, steel, stainless steel, copper and galvanized and plated metals, where a waxy coating can be employed to give effective exterior or interior rust protection. **E-Tec 522** can be used to coat lightly oiled metal surfaces. Test a sample part to determine adhesion and film-forming properties when applying over lightly oiled or uncleaned surfaces. Since there are various types of oils, we recommend such a pretest for compatibility.

#### Advantages

- Can be applied over lightly oiled surfaces, eliminates the need for washing
- Dries to a tack-free finish, does not attract or hold dust
- Outstanding adhesion and durability for excellent protection and wearability
- Excellent corrosion control
- Superior dry film lubrication
- Enhances appearance of most surfaces to promote customer satisfaction
- Effective on a wide variety of substrates allowing for one product for many applications
- Nonflammable for safety and VOC compliance
- Provides medium gloss dry film (buffable)
- Easy to apply, liquid at ambient temperatures
- Easily diluted and mixed with water
- Excellent coverage
- Easy to remove with alkaline cleaners

## Characteristics

	<b>Unit</b>	<b>Test Method</b>	<b>Value</b>
Appearance of concentrate	-	Visual	Tan colored liquid
Appearance of film	-	Visual	Clear satin
pH of Concentrate	@ 100%	CN-TM-069	9.3 – 9.8
Viscosity	@ 100°F (38°C)	cps	16 – 18
Bulk Density	lbs/gal	-	8.4
% Solids	-	COC	24
Softening point	°F/°C	-	155°F (68°C)
Temperature Stability	°F/°C	-	40–100°F (4–38°C)
Coverage	ft <sup>2</sup> /gal	-	2,400
Film Thickness	in.	-	0.2
Flexibility	-	O-T bend	Pass
5% Salt Fog	12 hours	CR Steel	Pass
Exterior Durability	-	Horizontal CR Steel	3 – 6 mos
Dry Time	min	-	15

## Application

- Use as a torque reduction and corrosion resistant lubricant on various fasteners
- Use as a corrosion preventive and decorative coating on cast iron
- Use as an anti-graffiti coating over various surfaces including vinyl, rubber, plastic, painted surfaces, metal and other surfaces
- Provides a dry, imperceptible barrier film over various surfaces. Graffiti adheres to the barrier film of **E-Tec 522** and not to the coated surface
- Can be easily removed in **EPI's** alkaline **E-Kleen** cleaning solutions
- Commonly used as a nonflammable, dry film lubricant and corrosion preventive on electrical connectors, pins, screws and other electrical components. Does not inhibit the flow of electricity in electrical connectors
- Excellent release properties make it capable of being used as a mold release agent for flexible or rigid forms
- Can be applied by almost any commercial method – flow coat, immersion, wipe or spray

Working dilutions of **E-Tec 522** should be determined by the end user. **E-Tec 522** may be diluted with water, which will result in thinner films and reduced durability. **E-Tec 522's** water emulsion protective coating can be diluted with tap water. However, if local water is very hard, dilute **E-Tec 522** with deionized water.

### Additional Information

Drying time depends upon temperature, humidity and air flow. At 75°F (24°C) and 45% relative humidity, **E-Tec 522** dries to the touch in about 15 minutes when applied at full strength. Forced warm air and/or dilution will decrease the drying time.

### Caution

Protect eyes from solutions with glasses, goggles, or a face shield. In the event of contact, flush eyes thoroughly with water and obtain medical attention.

### Removal of Finishes

The **E-Tec 522** is easily removed in **EPI's** alkaline **E-Kleen** cleaning solutions.

### **Test Data for ASTM-D-2247-68**

(Humidity Cabinet, 100% - 100°F [38°C])

<b>Concentration</b>	<b>Cold Roll Steel/Hrs.</b>	<b>Iron Phosphate/Hrs.</b>	<b>Zinc Phosphate/Hrs.</b>
100%	440	400	400
80%	440	400	360
67%	440	360	120

### **Test Data for ASTM-B-117-73**

(Salt Fog-5% Salt, 100% - 100°F [38°C])

<b>Concentration</b>	<b>Cold Roll Steel/Hrs.</b>	<b>Iron Phosphate/Hrs.</b>	<b>Zinc Phosphate/Hrs.</b>
100%	12	>12	24
80%	8	8	24
67%	6	6	18

### Disposal

Spent **E-Tec 522** solutions can be discharged into the sewer after neutralizing to the pH required by local sanitary department.

### Packaging

5 gallon and 55 gallon non-returnable containers.

### **IMPORTANT NOTICE! For Industrial Use Only**

The following is made in lieu of all warranties, expressed or implied, including the implied warranties of merchantability and fitness for purpose: sellers and manufacturers only obligation shall be to replace such quantity of the product as proved to be defective. Before using, user shall determine the suitability of the product for its intended use, and user assumes all risk and liability whatsoever in connection therewith. **Neither seller nor manufacturer shall be liable either in tort or in contract for any loss or damage, direct, incidental or consequential, arising out of the use or the inability to use the product.**

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