



**83030**  
DATA SHEET

# 2.1 VOC ARP Primer

Automotive Primer

Industry Approvals	
Auto Refinish:	✓ Category 1
Env. Canada:	Exempt
MPI:	N/a
AWWA:	N/a

## General Properties

A high performance epoxy primer for vehicle refinish applications requiring a primer with less than 250 gr/lit VOC. The 83030 primer has superior corrosion resistance when applied to prepared steel. No induction time required. 83030 has excellent sanding capability, but provides a finish so smooth that sanding is often not required.

## Recommended Uses

For use in vehicle refinish applications, truck boxes & bodies, power distribution equipment, tanks, agricultural equipment, and general industrial priming.

## Product Information

<b>GENERIC TYPE</b>	Amine Cured Epoxy
<b>PIGMENT TYPE</b>	Anti-corrosive
<b>COLOR</b>	Grey
<b>BASES</b>	N/a
<b>FINISH</b>	Flat
<b>AVERAGE VOLUME SOLIDS</b>	60.2%
<b>AVERAGE WEIGHT SOLIDS</b>	77.0%
<b>RECOMMENDED FILM THICKNESS</b>	Wet: 3.3-5.0 mils (82 - 125 microns) Dry: 2-3 mils (50 - 75 microns) <i>See your Cloverdale Representative for project recommendations.</i>
<b>THEORETICAL COVERAGE</b>	965 ft <sup>2</sup> /gal @1 mil (25 microns) DFT 23.7 m <sup>2</sup> /L @ 1 mil (25 microns) DFT <i>Actual coverage may vary depending on substrate and application methods.</i>

<b>MIXED RATIO</b>	3 Parts 83030A; 1 Part 83030B
<b>INDUCTION TIME</b>	No induction time required
<b>POT LIFE</b>	7 hours at 25°C (77°F) (less at higher temperatures)
<b>VISCOSITY MIXED</b>	57 - 63 KU
<b>TEMPERATURE RESISTANCE (DRY)</b>	93°C (200°F) Continuous 120°C (250°F) Intermittent
<b>V.O.C. MIXED</b>	250 gm./lit. (2.1 lb./gal.) <i>*refer to MSD sheet for current VOC values</i>
<b>THINNER</b>	Use as supplied.
<b>ACCELERATOR</b>	A-65

## Methods of Application

<b>AIRLESS SPRAY</b>	1500 - 200 psi with tip sizes .011" - .013" or equivalent
<b>H.V.L.P.</b>	Tip size 1.4 - 1.6 mm. 8 - 10 psi cap pressure
<b>CONVENTIONAL</b>	40 - 50 psi gun pressure
<b>BRUSH / ROLLER</b>	Not recommended

**Drying Time** - Temperature, Relative Humidity, and Film Thickness will affect dry and re-coat times.

Substrate Temperature	Touch Dry	Hard Dry	Overcoat Interval with Armourshield		
			Minimum	Maximum	Normal
25°C (77°F)	3.5 hours	6 hours	2 hours	3 days	4 hours

**Recommended Topcoats**

Most Cloverdale Conventional and High Performance Coatings. Note: Only the 837 and 839 series urethanes should be used for ARP applications.

**Surface Preparation**

Area to be painted should be thoroughly cleaned with a detergent solution in water followed by a wash using a wax and grease remover. Sand the bare metal areas using 80-180 grit abrasive. Old, existing finishes should be sanded using 320 – 400 grit paper. Sanded areas should be re-cleaned and primed as quickly as possible after drying.

**Limitations**

Not recommended for immersion service. For best results apply when substrate temperature is above 10°C (50°F), and at a minimum of 3°C (5°F) above the dew point. Do not apply when the relative humidity is above 85%.

**Mixing Instructions**

Mix 83030 base A component and curing agent 83030 activator B separately with good agitation. Add curing agent to base component and mix thoroughly until homogenous. If thinning is necessary or required proceed only after recommended induction time has passed.

**Safety Precautions**

This product is for industrial use only. **Refer to Material Safety Data Sheet for proper health and safety information.**

**Storage and Handling****FLASH POINT**

-20°C (-4°F) TCC

**PRODUCT WEIGHT**

1.435 kg/lit mixed (container extra)

**STORAGE**

Cool, dry, secure location. See your Cloverdale Paint Representative.

**PACKAGE SIZE**

1 gal kit - 3 qts 83030A and 1 qt. 83030B  
4 gal kit - 3 gal 83030A and 1 gal 83030B

Some package sizes or colors may be by special order only. Please check with your Cloverdale Representative when ordering.

**Warranty Disclaimer**

Cloverdale Paint manufactures quality products. In the event that this product is defective or in any way unsuitable for the application for which it is sold, Cloverdale Paint Inc. will replace the product free of charge. The warranty provided by this data sheet is the only warranty or guarantee of quality made in respect of this product by Cloverdale Paint Inc. By purchasing this product the customer accepts this warranty in lieu of all others, and waives all claims to any other remedy arising from any warranty or guarantee of quality, whether such warranty or guarantee of quality was made expressly to the customer or implied by any applicable law.

**Cloverdale Paint Inc.**

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## PERFORMANCE CRITERIA

### 1. Abrasion Resistance

**Method:** ASTM D4060 Abrasion Resistance of Organic Coating by Taber Abrader, 1000 gram load, CS-17 Wheel, 1000 Cycles

**Coating System:** 1 coat 83030

**Results:** 161 mg.

### 2. Adhesion

**Method:** ASTM D4541, method "E"

**Coating System:** 83030 primer, 839 Armourshield topcoat

**Results:** >900 psi

### 3. Chemical Resistance

**Method:** Covered spot test for 1 week at room temperature

**Coating System:** 1 coat 83030

Coating was exposed to - 5% Sodium Hydroxide Solution; 5% Sulfuric Acid Solution; 5% Hydrochloric Acid; 5% Mono Basic Sodium Phosphate Solution; 5% Sodium Hypochlorite Solution; Heavy Duty Liquid Detergent

**Results:** Unaffected - slight discoloration permitted

### 4. Recoating Window

**Method:** Internal method - Minimum = the time to >80% gloss @ 20 degree angle. Maximum = longest time tested with 5B adhesion of topcoat

**Coating System:** 83030 primer, 839 Armourshield topcoat

**Results:** 2 hrs to >72 hrs

### 5. Salt Spray (Fog)

**Method:** ASTM B117

**Coating System A:** 1 coat 83030

**Results:** >1000 hrs

**Coating System B:** 1 coat 83030, 1 coat 83904

**Results:** >1500 hrs

### 6. Flexibility

**Method:** ASTM D522 Cylindrical Mandrel Bend

**Coating System:** 1 coat 83030

**Results:** Not less than 9% elongation

### 7. Pencil Hardness

**Method:** ASTM D3363

**Coating System A:** 1 coat 83030

**Results:** pass 2H

Check for recent amendments to this data sheet at [www.cloverdalepaint.com](http://www.cloverdalepaint.com)



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