



# METALLIC CLEARCOAT SERIES 1079

## PRODUCT PROFILE

**GENERIC DESCRIPTION** Aliphatic Acrylic Polyurethane

**COMMON USAGE** A unique clear coat used to both enhance the finish and extend the long-term weathering qualities of metallic pigmented coatings. Resists most graffiti markings. Series 44-500 (patent 5,548,010 and other patents pending), an optional indicator dye, is available to aid in uniform application. Where VOC regulations apply, this product can only be sold or used as part of a faux finishing coating system.

**COLORS** Clear. **Note:** 44-500 will temporarily change the appearance to a violet tint during application. After a period of up to 72 hours of sunlight exposure, appearance will be clear.

**FINISH** High gloss

**PERFORMANCE CRITERIA** Extensive test data available. Contact your Tnemec representative for specific test results.

## COATING SYSTEM

**BASE COATS** Series 1077. **Note:** Series 1079 Metallic Clearcoat should be applied within 24 hours of a previous Series 1079 application and within 21 days of a 1077 application.

## SURFACE PREPARATION

**ALL SURFACES** Prepare by method suitable for exposure and service. (See Primer Product Data Sheet for surface preparation recommendations.)  
Must be clean, dry and free of oil, grease and other contaminants.

## TECHNICAL DATA

**VOLUME SOLIDS** 64.0 ± 2.0% (mixed)

**RECOMMENDED DFT** 1.0 to 2.0 mils (25 to 50 microns) per coat.

**CURING TIME**

| Temperature | To Touch  | To Handle | Minimum To Recoat | Maximum To Recoat † |
|-------------|-----------|-----------|-------------------|---------------------|
| 75°F (24°C) | 1-2 hours | 6 hours   | 6 hours           | 24 hours            |

To resist moisture condensation: 4 hours.  
Curing time varies with surface temperature, air movement, humidity and film thickness.  
† If exceeded, scarify before applying an additional coat.

**VOLATILE ORGANIC COMPOUNDS** **Unthinned:** 2.01 lbs/gallon (241 grams/litre)  
**Thinned 5% (No. 49 Thinner):** 2.01 lbs/gallon (241 grams/litre)  
**Thinned 5% (No. 2 Thinner):** 2.29 lbs/gallon (274 grams/litre)  
**Thinned 10% (No. 2 Thinner):** 2.54 lbs/gallon (304 grams/litre)

**HAPS** **Unthinned:** 0.17 lbs/gal solids  
**Thinned 5% (No. 49 Thinner):** 0.17 lbs/gal solids  
**Thinned 5% (No. 2 Thinner):** 0.73 lbs/gal solids  
**Thinned 10% (No. 2 Thinner):** 1.30 lbs/gal solids

**THEORETICAL COVERAGE** 1027 mil sq ft/gal (25.2 m<sup>2</sup>/L at 25 microns). See APPLICATION for coverage rates.

**NUMBER OF COMPONENTS** Three: Part A, Part B and Part C

**MIXING RATIO** By volume: Three (Part A) to One (Part B) Part C: See note under Mixing.

**PACKAGING** Small Kit: Consists of a partially filled one-gallon can of Part A, a quart can of Part B, an 8 oz bottle of Part C and a foil package containing a vial of 44-500. When mixed yields 1.06 gallons.

**NET WEIGHT PER GALLON** 8.70 ± 0.25 lbs (3.96 kg ± 0.11) (mixed)

**STORAGE TEMPERATURE** Minimum 20°F (-7°C) Maximum 110°F (43°C)

**TEMPERATURE RESISTANCE** (Dry) Continuous 250°F (121°C) Intermittent 275°F (135°C)

**SHELF LIFE** Parts A, B & C: 12 months at recommended storage temperature.

**FLASH POINT - SETA** Part A: 88°F (31°C) Part B: 78°F (25°C) Part C: 88°F (31°C)

**HEALTH & SAFETY** Paint products contain chemical ingredients which are considered hazardous. Read container label warning and Material Safety Data Sheet for important health and safety information prior to the use of this product.  
**Keep out of the reach of children.**

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## APPLICATION

### COVERAGE RATES

|           | Dry Mills (Microns) | Wet Mills (Microns) | Sq Ft/Kit (m <sup>2</sup> /Gal) Small Kit |
|-----------|---------------------|---------------------|---|
| Suggested | 1.5 (40)            | 2.5 (65)            | 684 (63.6)                                |
| Minimum   | 1.0 (25)            | 1.5 (40)            | 1027 (95.4)                               |
| Maximum   | 2.0 (50)            | 3.0 (75)            | 513 (47.7)                                |

Allow for overspray and surface irregularities. Film thickness is rounded to the nearest 0.5 mil or 5 microns. Application of coating below minimum or above maximum recommended dry film thicknesses may adversely affect coating performance.

### MIXING

**Note:** Add Part C Accelerator according to the following chart.

| Surface Temp. Range         | Amount of Part C to Add (Small Kit - Parts A and B mixed) |
|-----------------------------|---|
| 40°F to 70°F (4°C to 21°C)  | Full amount supplied (8 oz or 235 mL)                     |
| 70°F to 80°F (21°C to 27°C) | 50% of amount supplied (4 oz or 120 mL)                   |
| Above 80°F (27°C)           | 25% of amount supplied (2 oz or 60 mL)                    |

Pour Part A into a clean container large enough to hold all three components. Add Part C Accelerator and the vial of 44-500 to Part A while under agitation. Mix thoroughly. Add Part B to the mixture of Parts A, C and 44-500 while under agitation. Continue agitation until all components are thoroughly mixed. **Important:** Mixing ratio is three (Part A) to one (Part B) by volume.

### THINNING

For air spray or roller, thin up to 10% with No. 2 or No. 49 Thinner. **Caution: Do not add thinner if more than thirty (30) minutes have elapsed after mixing.**

### POT LIFE

1 hour at 77°F (25°C) 30 minutes at 100°F (38°C)  
**Note:** See chart at beginning of Mixing instructions.

### APPLICATION EQUIPMENT

#### Air Spray

| Gun                  | Fluid Tip | Air Cap    | Air Hose ID                   | Mat'l Hose ID                 | Atomizing Pressure      | Pot Pressure            |
|----------------------|-----------|------------|-------------------------------|-------------------------------|-------------------------|-------------------------|
| DeVilbiss MBC or JGA | E         | 765 or 704 | 5/16" or 3/8" (7.9 or 9.5 mm) | 3/8" or 1/2" (9.5 or 12.7 mm) | 70-90 psi (4.8-6.2 bar) | 10-20 psi (0.7-1.4 bar) |

Low temperature or longer hoses require higher pot pressure. Proper atomization is necessary to obtain a smooth finish.

**Airless Spray:** Not recommended.

**Roller:** Use 1/4" (6.4 mm) synthetic woven nap cover. Do not use medium or long nap roller covers.

**Brush:** Recommended for small areas only. Use high quality natural or synthetic bristle brushes.

### SURFACE TEMPERATURE

Minimum 40°F (4°C) Maximum 120°F (49°C)  
 The surface should be dry and at least 5°F (3°C) above the dew point.

### CLEANUP

Flush and clean all equipment immediately after use with the recommended thinner or xylol.

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