

**Delstar® / Delthane® Polyurethane Acrylic Enamel****DAR**

The *Delstar® / Delthane® Ultra* (DAR/DXR80) Polyurethane Acrylic Enamel system is a single stage system designed for panel repair, overall refinishing or as a fleet finish. It resists the elements and retains color and gloss.

*Delstar / Delthane* provides more durability and depth of gloss than the enamels of the past. When repairing or refinishing older vehicles, *Delstar / Delthane* can provide the texture and color of their original finishes.

**Compatible Surfaces*****Delstar / Delthane* may be applied over:**

- OEM & Refinish Lacquers (Must be sanded & sealed)
- OEM Basecoat/Clearcoat (Must be sanded)
- OEM Enamels (Must be sanded)
- DPLF Epoxy Primer
- DPX170/171 Non-Chrome Self Etching Primer
- DPX801 Universal Plastics Adhesion Promoter
- DX 1791/1792 Self Etching Primer
- DZ *Kondar®* Acrylic Primer Surfacer
- DX54 *Roadguard®* Chip Resistant Coating
- K36 *Prima®* Acrylic Urethane Primer Surfacer
- K36 *Prima* Acrylic Urethane Wet-On-Wet Sealer
- K38 High Build Primer Surfacer
- K93 Tintable Primer Surfacer/Sealer
- NCP250 *NCT®* Primer Surfacer
- NCP270/271 Corrosion Resistant Primer
- NCP272 Tintable Corrosion Resistant Primer
- NCP280 2.1 VOC Primer Surfacer
- NCS1990 Compliant Wet-On-Wet Sealer
- NCS1996 LOW VOC SEALER
- NCS2000 Series Sealer
- SX1050 & SXA1050 Plastic Adhesion Promoter
- SX1056 Flexible 2K Sealer
- SX1057 Flexible 2K Surfacer
- SX1060 Rollable 2K Primer Surfacer

Product Information Effective 10/03

**Required Products**

	Hardener
<i>Delthane Ultra</i> Urethane Hardener	<b>DXR80</b>
Urethane Hardener	<b>DU5</b>
Acrylic Enamel Reducers	
Fast (below 65°F)	<b>DTR600</b>
Moderate Temperature (60–75°F)	<b>DTR601</b>
Medium Temperature (70–90° F)	<b>DTR602</b>
Hot Temperatures (85°F & Above)	<b>DTR604</b>

*DTR 607 Retarder may be used in place of up to 25% of the reducer in higher temperatures.*



# DAR

## Directions For Use

### Surface Preparation And Cleaning:



DAR colors are designed to be applied over properly cleaned, sanded and primed surfaces.

- Wash painted surfaces thoroughly with soap and water to remove water-soluble contaminants. Then clean with appropriate DX Cleaner (see P-178) or SX1005 0.4 VOC Cleaner (see PD-733).
- Sand with 280 grit sandpaper or equivalent.
- Re-clean with DX Cleaner or SX1005 0.4 VOC Cleaner. Prime or seal as needed.

### Mixing Ratios:



#### Standard Option

Reduce **Delstar**<sup>®</sup> with the **DTR Reducer** best suited for shop conditions and add **Delthane**<sup>®</sup> **DXR80 Hardener** using the following ratio:

<b>DAR Color</b>	:	<b>DTR Reducer</b>	:	<b>DXR80</b>
8	:	3	:	1

*Pot life of the mixture is 8 hours at 70°F (21°C).*



#### DU5 Option

DU5 may be used for faster dry and better buffing:

		<b>DTR or</b>		
<b>DAR Color</b>	:	<b>DT* Reducers</b>	:	<b>DU5</b>
4	:	1	:	1

*\*DT Reducers may only be used with DU5 and only with the 4:1:1 ratio.*

*Pot life of the mixture is 8 hours at 70°F (21°C).*



#### Flexing Option

DU5 may be used for faster dry and better buffing:

<b>DAR Color</b>	:	<b>DTR Reducer</b>	:	<b>DX814</b>	:	<b>DXR80</b>
8	:	4	:	2	:	1

*Pot life of the mixture is 8 hours at 70°F (21°C).*

### Tinting:

DAR color may be tinted up to 10% with DMR or another DAR color.

### Additives:



**DX84 Accelerator, DX87 Extender or DXR81 Accelerator** may be added at 1/2 oz. per RTS qt. (Mixture may result in RTS VOC above 5.00)

**DX 73 Fisheye Eliminator**, when necessary, can be used in DAR

Color up to 1/2 oz. per RTS qt. Surface to be painted must be thoroughly cleaned.

*Silicone additives should never be used unless positively necessary as flow-out of paints is decreased in direct relation to the amount used.*

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**Spraygun Set-up:**

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<b>Apply:</b>	2–3 full wet coats or until hiding is achieved	
<b>Film Build Per Wet Coat:</b>	3.6–4.6 mils	
<b>Dried film Build Per Coat:</b>	1.2–1.4 mils	
<b>Fluid Tip:</b>	1.3–1.7 mm or equivalent	
<b>Spray Viscosity:</b>	20–29 seconds #2 Zahn cup	
<b>Air Pressure:</b>	8–10 PSI at the cap for HVLP guns 55–60 PSI at the gun for conventional guns	

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**Drying Times:**

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	<b>w/DXR80</b>	<b>w/DU5</b>
<b>Between Coats:</b>	15–20 minutes	5–10 minutes
<b>Dust Free:</b>	40–50 minutes	20–30 minutes
<b>Tack Free:</b>	3 hours	2 hours
<b>Tape Free:</b>	6–8 hours	6–8 hours
<b>Purge Time:</b>	0–10 minutes	0–10 minutes
<b>Force Dry:</b>	40 minutes at 140°F	40 minutes at 140°F
<b>IR (Infrared):</b>	Medium Wave Short Wave	10–15 minutes depending on color 7–9 minutes depending on color
<b>Put in Service:</b>	Overnight @ 70°F or after bake + 8 hrs.	Overnight @ 70°F or after bake + 8 hrs.

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**Blending:**

**Option 1**—A two gun system is recommended when performing a spot repair. After each coat of color, mist the overspray edge with the second gun containing DX840 or DX830. **DO NOT** over wet the edge.

**Option 2**—*Delstar*<sup>®</sup> Color may also be blended by mixing the RTS color in your gun cup with an equal amount of DX840 or DX830. Apply this “over” reduced material to the dry edges. If additional blending is necessary, reduce the blend mixture with another equal part of DX840 or DX830.

**Polishing:**

After 24 hours @ 70°F (21°C) solid colors can be sanded with 1200–2000 grit sandpaper and compounded. In all cases, use a fine compound and polishing pad.

**Repair and Recoat:**

*Delstar* / *Delthane*<sup>®</sup> *Ultra* (DAR/DXR80) may be recoated with itself after a minimum of 4 hours air dry @ 70°F (21°C), but preferably overnight. DAR/DXR80 may also be recoated following a force dry for 40 minutes @ 140°F (60°C).

**Clearcoating:**

If desired, a clearcoat can be applied to provide additional long term durability or wet-look appearance. The recommended clears are:

- DCU2002 *Concept*<sup>®</sup> Urethane Clear
- DCU2021 *Concept* Urethane Clear
- DCU2042 Low VOC Speed Clear
- DC3000 *Deltron*<sup>®</sup> High Velocity Clear

*Note: The color must dry a minimum of 4 hours before clearcoating.*

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## Directions For Use

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<b>Technical Data:</b>	VOC (PKG) lbs. per US Gal.	4.75 max
	VOC (RTS) lbs. per US Gal.	5.0 max
	Total Solids by Volume (RTS)	31–38%
	Sq. Ft. Coverage / US Gal. (1 mil @ 100% Transfer Efficiency)	500–600
	Film build per wet coat	3.6–4.6 mils
	Dry film build per coat	1.2–1.4 mils
	Recommended dry film	2–3 mils

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**Important:** The contents of this package must be blended with other components before the product can be used. Before opening the packages, be sure you understand the warning messages on the labels of all components, since the mixture will have the hazards of all its parts. Improper spray technique may result in a hazardous condition. Follow spray equipment manufacturer's instructions to prevent personal injury or fire. Follow directions for respirator use. Wear eye and skin protection. Observe all applicable precautions.

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**See Material Safety Data Sheet and Labels for additional safety information and handling instructions.**

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### **EMERGENCY MEDICAL OR SPILL CONTROL INFORMATION (304) 843-1300; IN CANADA (514) 645-1320**

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