

**DELTA® Graffiti  
Resistant Clearcoat**

# DCU2050

DCU2050 is a low VOC clear which offers outstanding chemical and graffiti resistance. The hard, diamond-like film makes this clear an excellent choice for transit fleets, streetcars, light rail units and urban delivery vehicles where pollution, graffiti or chemical exposure may be present. Choice of reducer, accelerator and pot life extender make this clear adaptable to a wide variety of shop conditions. DCU2050 may be applied at 2.8 or 3.5 lbs./gal. VOC.

Features	Advantages	Benefits
• Excellent film hardness	• More durable finish	• Better appearance/image
• Graffiti resistant	• Easy graffiti removal	• Lower maintenance costs
• High solids formulation	• Higher film build per coat	• Saves labor costs

**Compatible Surfaces**

Delta® DCU2050 may be applied over:

- Delta® 2800 DHS 2.8 VOC Polyurethane
- Delta® 3500 DUHS 3.5 VOC Polyurethane
- Delta® DGHS Chemical Resistant Polyurethane 3.5 VOC
- Delta® DGHS Chemical Resistant Polyurethane 4.4 VOC
- Delta® DUHS Basecoat
- Delta® DFHS High Solids Urethane
- Delta® DVHS Fast Dry 2.8 VOC Polyurethane
- Delta® DSS Medium Solids Polyurethane

DRS Reducers	
Reducer - Fast (60-70°F)	DRS1460
Reducer - Medium (65-80°F)	DRS1470
Reducer - Slow (75-90°F)	DRS1485
Reducer - Hot Temperature (85°F and above)	DRS1495
Retarder/Reducer	DRS1498
Hardener	
Graffiti Resistant Hardener	DCX2051
Required Additive Options	
Accelerator	DX39
Extender	DX53



# APPLICATION GUIDE DCU2050

**Mixing Ratio 2.8 VOC:**



DCU2050 : DCX2051 + DX53

1 part : 1 part + 6 oz. per RTS gal.

**Mixing Ratio 3.5 VOC:**



DCU2050 : DRS Reducers : DCX2051 + DX39/DX53

1 part : 1/2 part : 1 part + 4 oz. per RTS gal.

High shop temperatures may require use of DX53 instead of DX39 in the 3.5 VOC reduction to prevent solvent popping.

**Pot life:**



3-4 hours @ 70°F and 50% RH  
(High heat and humidity will shorten pot life)

**Additives:**



Accelerator:	No Recommendation
Extender:	No Recommendation
Fisheye:	No Recommendation
Flex:	No Recommendation
Flattening:	No Recommendation

**Spraygun set-up:**



**Fluid Tip**

1.0 - 1.4 mm for Pressure Feed/HVLP  
1.3 - 1.5 mm for Conventional Feed/HVLP

**Air Pressure**

HVLP at air cap	10 PSI
Conventional at spray gun	45-60 PSI

*Consult the Fleet Training Manual Spray Equipment Section for gun set-up requirements.*

**Minimum number of coats:**



2 coats

**Total film build per coat:**

<b>2.8 VOC</b>	<b>Wet</b>	<b>Dry</b>
	Minimum 1.4 mils	1.0 mils
<b>3.5 VOC</b>	Maximum 1.8 mils	1.3 mils
	<b>Wet</b>	<b>Dry</b>
Minimum 2.1 mils	2.1 mils	1.0 mils
	Maximum 2.7 mils	1.3 mils

**Flash Time at 70°F:**



Between coats	10-15 minutes
Before force drying	15-20 minutes

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**Drying times:**  
2.8 VOC



**Air Dry @ 70°F  
with DX53**

Dust 1-1.5 hours  
Tack 4 hours  
Tape 6 hours

**Pot life:**

1 hour

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**Drying times:**  
3.5 VOC

**Air Dry @ 70°F  
with DX39**

Dust 20-30 minutes  
Tack 1 hour  
Tape 6 hours

**Air Dry @ 70°F  
with DX53**

Dust 1-1.5 hours  
Tack 3 hours  
Tape 6 hours

**Pot life:**

1 1/2-2 hours

3-4 hours

**Force Dry\*\*  
with DX39**

Flash 10 minutes  
30 minutes @ 120°F  
10 minutes @ 180°F

**Force Dry\*\*  
with DX53**

Flash 10 minutes  
30 minutes @ 120°F  
10 minutes @ 180°F

*\*\* Force drying times are for quoted surface temperature. Additional time should be allowed in the force drying schedule to allow surface to reach recommended temperature.*

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**Recoat time:**

10-15 minutes minimum dry and up to 8 hours maximum at 70°F before sanding is required.

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**Repair time:**

8 hours @ 70°F Air Dry  
30 minutes after force dried/cool down period.

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**Polish:**

24 hours @ 70°F

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**TEST PROPERTIES**

	<b>2.8 VOC</b>	<b>3.5 VOC</b>
VOC Packaged	2.5 lbs. per U.S. gal.	2.5 lbs. per U.S. gal.
VOC RTS Applied	2.8 lbs. per U.S. gal.	3.5 lbs. per U.S. gal.
Volume Solids RTS)	64.8%	51.7%
Square Foot Coverage (RTS US Gallon 100% Transfer Efficiency)	1040 sq. ft.	829 sq. ft.
Gloss (20 degree)	85%	85%
Gloss Retention (1000 hrs. QUV)	100%	100%
Pencil Hardness*	(HB-H)	(HB-H)

\* Film properties, including pencil hardness are given where ultimate air cure is reached, usually 7 days.



# DCU2050

DELTA®  
Graffiti Resistant Clearcoat

**INSTANT  
REFERENCE**

## INSTRUCTIONS FOR USE

### How to Mix:



#### Mix DCU2050

2.8 VOC

**DCU2050 : DCX2051 + DX53**

1 : 1 + 6 oz./RTS gal.

3.5 VOC

**DCU2050 : DRS Reducer : DCX2051 + DX39/DX53**

1 : 1/2 : 1 + 4 oz./RTS gal.

**Pot life:**

**2.8 VOC with DX53**

1 hour at 70°F

**3.5 VOC with DX53**

3-4 hours at 70°F

### Air Pressure:



**HVLP:**

10 PSI at the air cap

**Conventional:**

45-60 PSI at the gun

**Fluid tip:**

1.0 -1.4 mm for Pressure Feed/HVLP

1.4 -1.6 mm for Conventional Feed/HVLP

### Application:



**Apply:**

2 coats or until hiding is achieved

### Dry Time:



**Between coats:** 10-15 minutes

**2.8 VOC**

**Air Dry @ 70°F  
with DX53**

Dust 1-1.5 hours

Tack 4 hours

Tape 6 hours

**3.5 VOC**

**Air Dry @ 70°F  
with DX39**

Dust 20-30 minutes

Tack 1 hour

Tape 6 hours

**Air Dry @ 70°F  
with DX53**

Dust 1-1.5 hours

Tack 3 hours

Tape 6 hours

**Force Dry  
with DX39**

Flash 10 minutes

30 minutes @ 120°F

10 minutes @ 180°F

**Force Dry  
with DX53**

Flash 10 minutes

30 minutes @ 120°F

10 minutes @ 180°F

**PRODUCTS NEEDED FOR JOB**

For additional information,  
refer back to the complete FL601

## HEALTH AND SAFETY

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

Emergency Medical or Spill Control Information (304) 843-1300; In Canada (514) 645-1320

Materials described are designed for application by professional, trained personnel using proper equipment and are not intended for sale to the general public. Products mentioned may be hazardous and should only be used according to directions, while observing precautions and warning statements listed on label. Statements and methods described are based upon the best information and practices known to PPG Industries. Procedures for applications mentioned are suggestions only and are not to be construed as representations or warranties as to performance, results, or fitness for any intended use, nor does PPG Industries warrant freedom from patent infringement in the use of any formula or process set forth herein.



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