

## **High Solids Polyurethane Primer**

# DPU174

DPU174 High Solids Polyurethane Primer is a 2.8 VOC chrome-free polyurethane primer which exhibits excellent adhesion and corrosion resistance when applied over properly prepared steel, galvanized steel, fiberglass and aluminum substrates. DPU174 may be topcoated in as little as 30 minutes, making it an excellent choice for production-oriented fleet refinishers. The primer can be thinned with DRS series reducers, resulting in a 3.5 VOC primer sealer. DPU174 is primarily designed for use with DELTA® High Solids Polyurethane topcoats.

Features	Advantages	Benefits
Adhesion to a wide variety of substrates	Versatility	Less product inventory
Fast dry to topcoat	Faster turn around	<ul> <li>Productivity improvement</li> </ul>
Easy to apply	<ul> <li>Better flow and leveling</li> </ul>	<ul> <li>Customer satisfaction</li> </ul>
Excellent corrosion resistance	Protects substrate	Longer repaint cycle/unit life

#### **Compatible Surfaces**

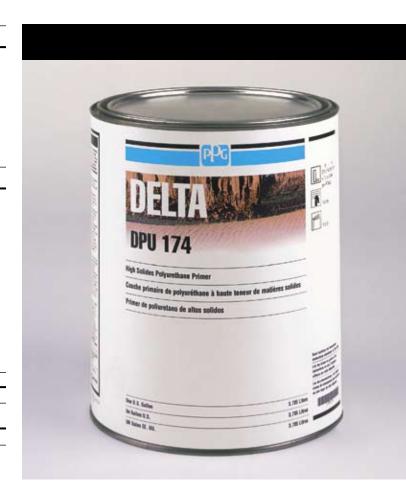
DPU174 may be applied over:

- Properly cleaned and sanded: \*steel, \*aluminum, fiberglass, galvaneal and galvanized steel
- DPHS52 Low VOC Primer
- DX1793 Chrome Free Self Etching Primer
- DPU166 High Solids Chromate Primer 2.8 VOC Max
- OEM Enamels
- Cured Air Dry Finishes

If sanding bare metal areas prior to the application of DPU174, use 180-240 grit wet or dry. Sand old finishes with 280-400 grit wet or dry.

\* Prime aluminum and carbon steel substrates immediately after cleaning.

	Hardener
High Solids Primer Hardener	DPU175
	Required Additive Options
Accelerator	DX39
Extender	DX53



FL303 Effective 12/08

Flash Time at 70°F:

### **APPLICATION GUIDE**



	DDI 1174 · DE	DI 1175   F	N20/DV52	
			p g	
	DPU174 : DF	PU175 + D	X39/DX53 :	DRS Reducers*
	5 parts : 1	part	z. per RTS gal.:	1 part
[Li□+=:□]				
	2.8 VOC: 1 hour @	70°F and 50% R	H	
	(High heat and hum	nidity will shorten	pot life)	
	Accelerator:	No Recomme	endation	
A B	Extender:			
	•			
	T IOX.	140 110001111110	mation	
	Fluid Tip			
		niverilloriai reeu/	UNTLE	
	HVLP at air cap			
	·			
			oray Equipment	Section for gun
	1-2 coats			
	2.8 VOC	Wet	Dry	
	Minimum	2.5 mils	1.5 m	
	Maximum	5.0 mils	3.0 m	ils
	3.5 VOC	Wet	Dry	<del></del>
	Minimum Maximum	2.9 mils 5.8 mils	1.5 m 3.0 m	
		DPU174 : DF 5 parts : 1  * When adding DRS the DRS Solvents DX39/DX53  2.8 VOC: 1 hour @ 3.5 VOC: 2 hours @ (High heat and hum  Accelerator: Extender: Fisheye: Flex:  Fluid Tip 1.0 - 1.4 mm for Pn 1.3 - 1.5 mm for Co Air Pressure HVLP at air cap Conventional at spi Consult the Fleet To set-up requirement  1-2 coats  2.8 VOC Minimum Maximum	DPU174: DPU175 + D 5 parts: 1 part + 6 oz  *When adding DRS reducers in the sthe DRS Solvents must be added DX39/DX53  2.8 VOC: 1 hour @ 70°F and 50% R 3.5 VOC: 2 hours @ 70°F and 50% (High heat and humidity will shorten  Accelerator: No Recomme Extender: No Recomme Fisheye: No Recomme Fisheye: No Recomme Flex: No Recomme Flex: No Recomme Flex: No Recomme The standard at spray gun Consult the Fleet Training Manual Spacet-up requirements.  1-2 coats  2.8 VOC Wet Minimum 2.5 mils Maximum 5.0 mils 3.5 VOC Wet	DPU174 : DPU175 + DX39/DX53 : 5 parts : 1 part + 6 oz. per RTS gal.  *When adding DRS reducers in the 3.5 VOC blend, the DRS Solvents must be added last, after the a DX39/DX53  2.8 VOC: 1 hour @ 70°F and 50% RH 3.5 VOC: 2 hours @ 70°F and 50% RH (High heat and humidity will shorten pot life)  Accelerator: No Recommendation Extender: No Recommendation Fisheye: No Recommendation Flex: No Recommendation Flex: No Recommendation  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 Conventional at spray gun  Consult the Fleet Training Manual Spray Equipment set-up requirements.  1-2 coats  2.8 VOC Minimum Maximum Maximum Maximum Maximum Maximum Maximum Maximum Maximum Minimum Maximum Maximum Minimum

Between coats

Before force drying

10 minutes

10 minutes

#### **APPLICATION GUIDE**



#### **Drying times:**

With DX 39:



With DX 53:

$\overline{}$		
<u>~~</u> )		
ュル		

Air Dry @ 70°F Force Dry\*\* Dust 10 minutes Flash 10 minutes Tack 15 minutes 20 minutes @ 130°F Tape 2 hours 10 minutes @ 160°F

Air Dry @ 70°F Force Dry\*\* Dust 15 minutes Flash 10 minutes Tack 20 minutes 20 minutes @ 130°F Tape 3 hours 10 minutes @ 160°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.

#### Dry time to topcoat:

60 minutes @ 70°F for 2.8 VOC\* 30 minutes @ 70°F for 3.5 VOC\*

\* After 72 hours DPU174 must be sanded before additional primer or topcoat can be applied.

#### **Test Properties:**

Color	Gray	
Volume Solids (RTS) (5:1+6 oz.) 2.8 VOC	60.4%	
Volume Solids (RTS) (5:1:1+6 oz.) 3.5 VOC	51.8%	
Square Foot Coverage (RTS US Gallon 100% Transfer Efficiency)	969 sq. ft. 2.8 VOC	
Square Foot Coverage (RTS US Gallon 100% Transfer Efficiency)	831 sq. ft. 3.5 VOC	
Gloss (20 degree)	31.6%	
Gloss Retention (1000 hours QUV)	100%	
Pencil Hardnes*	2B	
week and the second sec		

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

RTS Combinations:	DPU174 : DPU175 + DX39/DX53	DPU174 : DPU175 + DX39/DX53 + 1 part DRS14xx
Volume Ratio:	5:1+6oz/gal	5:1+6 oz/gal+1 part
Applicable Use Category	Primer Sealer	Primer Sealer
VOC Actual (g/L)	327	399
VOC Actual (lbs/gal)	2.73	3.33
VOC Regulatory (less water less exempt) (g/L)	327	399
VOC Regulatory (less water less exempt) (lbs/gal)	2.73	3.33
Density (g/L)	1442	1361
Density (lbs/gal)	12.03	11.36
Volatiles wt. %	22.7	29.3
Water wt. %	0.0	0.0
Exempt wt. %	0.0	0.0
Water vol. %	0.0	0.0
Exempt vol. %	0.0	0.0

#### **Compatible Topcoats:**

DPHS52 Low VOC Primer DELTA® (DSS) Medium Solids Polyurethane DELTA® (DFHS) Fast Dry High Solids Polyurethane

DELTA® (DUHS) High Solids Polyurethane

DELTA® (DUHS) Basecoat

DELTA® (DVHS) Fast Dry 2.8 VOC Polyurethane

DELTA® (DGHS) Chemical Resistant Polyurethane 3.5 VOC DELTA® (DGHS) Chemical Resistant Polyurethane 4.4 VOC

DELTA® (DHS) 2.8 VOC Polyurethane

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

Emergency Medical or Spill Control Information (412) 434-4515; 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.

## **PPG Industries**Commercial Coatings

We're Everywhere You Look

PPG Industries 19699 Progress Drive Strongsville, OH 44149 1-800-647-6050

PPG Canada Inc. 2301 Royal Windsor Drive Mississauga, Ontario L5J 1K5 1-888-310-4762