

## JC780 2.1 VOC Polyurethane Speed Clear

### Background

SHOP-LINE® JC780 is a two component 2.1 VOC high gloss polyurethane speed clear designed for production shops for use in either cross flow air dry or downdraft force cure spray booths. JC780 delivers very good gloss, DOI and buffability.

### Components

#### Clearcoat

JC780 2.1 VOC Polyurethane Speed Clear

#### Hardener

JH7870 Polyurethane Hardener - Fast

JH7880 Polyurethane Hardener - Slow

JH7890 Polyurethane Hardener - Extra Slow

### Compatible Products

#### Can be applied over:

JBPX Shop-Line Plus 3.5 VOC Acrylic Urethane Basecoats

JBX 3.5 VOC Acrylic Basecoat

JTX 2.8 VOC Acrylic Urethane Direct Gloss

JLX 2.8 VOC Acrylic Enamel

### Preparation

Allow basecoat color to dry a minimum of 30 minutes and a maximum of 24 hours before clearing. After 24 hours the basecoat should be lightly sanded and reapplied before applying JC780.

### Mixing



#### Ratios:

<b>JC780</b>	:	<b>JH78xx</b>
<b>4</b>	:	<b>1</b>



#### Pot Life:

1.5 - 2 hours at 70°F (21°C)



#### Additives:

SLV4985	Universal Flattening Agent, see ONECHOICE® product bulletin OC-7
SLV814	Universal Flexibilizer add 10% to RTS quart
SLV73	Fisheye Eliminator, 0.5 oz. to RTS quart
SL93LV	Accelerator, add 2% to RTS quart

### Air Pressure and Gun Setup



#### HVLP:

8 - 10 psi at the air cap

#### Compliant:

29 - 40 psi at the gun

#### Gun Setup:

1.3 - 1.6 mm or equivalent

Note: For best overall results, refer to spraygun manufacturer's recommendations for inlet air pressures.

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## Application

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**Coats:** 2 - 3 coats

For optimum performance, final recommended film build is 2.0 - 2.5 mils

## Dry Times

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**Between Coats:** 5 - 10 minutes at 70°F (21°C)



**Air Dry:**

Dust:  
Tape:

**With JH7870**  
10 - 15 minutes  
2 - 4 hours

**With JH7880 / JH7890**  
15 - 20 minutes  
2 - 4 hours



**Force Dry:** 15 minutes at 140°F (60°C)



**IR:** 12 - 15 minutes



**Polish:**

**Air Dry**

2 - 4 hours or overnight at 70°F (21°C) to polish or to put into service

**Force Dry**

60 - 90 minutes cool down to polish and put in service



**Recoat:**

**Air Dry**

8 hours or overnight at 70°F (21°C)

**Force Dry**

60 - 90 minutes cool down to recoat

Must lightly scuff before recoating.

## Clean Up

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Clean spray guns, gun cups, storage pots, etc., thoroughly with JR reducers, JT571 0.21 VOC General Purpose Solvent or another appropriate clean up solvent after each use. Follow EPA guidelines for proper storage and disposal of solvent-borne waste paint.

## Properties

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### Dry film build per coat

Applied (4:1) 1.0 - 1.5 mils

### Square ft. coverage at 1 mil

Applied (4:1) 476 - 480 sq. ft. gal. at 100% transfer

<b>Properties</b>			
<b>RTS Combinations:</b>	<b>JC780 : JH78xx</b>	<b>JC780 : JH78xx : SL93LV</b>	<b>JC780 : JH78xx : SLV814</b>
Volume Ratio:	4 : 1	4 : 1 + 2%	4 : 1 : ½
Applicable Use Category	Clear Coat	Clear Coat	Clear Coat
VOC Actual (g/L)	104	98-102	99
VOC Actual (lbs/gal)	0.87	0.82-0.85	0.82
VOC Regulatory (less water less exempt) (g/L)	249	236-244	240
VOC Regulatory (less water less exempt) (lbs/gal)	2.08	1.97-2.04	2.00
Density (g/L)	1111	1117-1118	1122
Density (lbs/gal)	9.27	9.32-9.33	9.36
Volatiles wt. %	69.4	69.2-69.6	69.8
Water wt. %	0.0	0.0	0.0
Exempt wt. %	60.0	60.4-60.5	61.0
Water vol. %	0.0	0.0	0.0
Exempt vol. %	58.3	58.4-58.5	58.8
Solids vol %	28.7	29.6-30.2	29.0
Solids wt. %	29.6	30.4-30.8	29.3



#### Limitations

*Shop-Line* products should not be combined with components of other product lines.

#### Precautionary Information:

The contents of this package may have to be blended with other components before the product can be use. 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 of its parts. Spray equipment must be handled with due care and in accordance with manufacturer's recommendations. Follow label directions for respirator use. Wear eye and skin protection. Observe all applicable precautions.

#### Medical Response:

**EMERGENCY MEDICAL OR SPILL CONTROL INFORMATION (412) 434-4515; IN CANADA (514)-645-1320**

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

Material Data Safety Sheets for the PPG products mentioned in this publication are available through your PPG *Shop-Line* brand distributor. To the best of our knowledge, the technical information in this bulletin is accurate; however, since PPG Industries is constantly improving its coating and paint formulas, the current technical data may vary somewhat from what was available when this bulletin was printed. Contact your *Shop-Line* brand distributor or visit [www.ppgrefinish.com](http://www.ppgrefinish.com) for the most up-to-date information.

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