

## JC781

### 2.1 VOC Polyurethane High Gloss Clear

#### Background

SHOP-LINE® JC781 is a two component 2.1 VOC high gloss polyurethane clear designed for production shops for use in either cross flow air dry or downdraft force cure spray booths. JC781 delivers very good gloss, DOI and buffability.

#### Components

##### Clearcoat

JC781 2.1 VOC Polyurethane High Gloss 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 JC781.

#### Mixing



Ratios:

<b>JC781</b>	:	<b>JH78xx</b>
4	:	1



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

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## Dry Times

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



**Air Dry:**

	<b>With JH7870</b>	<b>With JH7880 / JH7890</b>
Dust:	15 - 20 minutes	20 - 30 minutes
Tape:	6 - 8 hours	6 - 8 hours



**Force Dry:** 30 minutes at 140°F (60°C)



**IR:** 12 - 15 minutes



**Polish:**

**Air Dry**  
6 - 8 hours or overnight at 70°F (21°C) to polish or to put into service

**Force Dry**  
90 minutes cool down to polish and put in service



**Recoat:**

**Air Dry**  
8 hours or overnight at 70°F (21°C)

**Force Dry**  
90 minutes cool down to recoat

Must lightly scuff before recoating.

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## 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.

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## 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) 460 sq. ft. gal. at 100% transfer efficiency

Applied (4:1:½) 465 sq. ft. gal. at 100% transfer efficiency

<b>Properties cont'd</b>			
<b>RTS Combinations:</b>	<b>JC781 : JH78xx</b>	<b>JC781 : JH78xx : SL93LV</b>	<b>JC781 : 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)	100	93 - 97	95
VOC Actual (lbs/gal)	0.84	0.78 - 0.81	0.79
VOC Regulatory (less water less exempt) (g/L)	247	234 - 243	237
VOC Regulatory (less water less exempt) (lbs/gal)	2.06	1.95 - 2.03	1.98
Density (g/L)	1111	1118 - 1120	1123
Density (lbs/gal)	9.27	9.33 - 9.35	9.37
Volatiles wt. %	70.5	70.2 - 70.6	70.7
Water wt. %	0.0	0.1	0.0
Exempt wt. %	61.5	61.7 - 61.8	62.3
Water vol. %	0.0	0.1	0.0
Exempt vol. %	59.7	59.8	60.1
Solids vol %	28.7	28.6 - 29.2	29.0
Solids wt. %	29.6	29.4 - 29.8	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 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 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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