



PDS N5.9.3C  
July 2010

## P190-6790 HS CLEARCOAT-LV

### PRODUCT DESCRIPTION

P190-6790 is a High Solids, Low VOC acrylic urethane clearcoat which provides a fast and easy to apply super high gloss and durable finish designed specifically for use over Aquabase Plus<sup>®</sup> waterborne basecoat.

P190-6790 uses a "**One-Visit**<sup>™</sup>" application where 1 light to medium flowing coat is followed immediately by a full coat with no flash-off between coats.

RM2853CAN-3

Designed for use with

**Aquabase**  
PLUS

# ***HS CLEARCOAT-LV***

## **PRODUCTS**

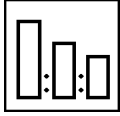
<b><i>P190-6790</i></b>	<b><i>HS CLEARCOAT-LV</i></b>
<b><i>P210-872</i></b>	<b><i>FAST HARDENER</i></b>
<b><i>P210-875</i></b>	<b><i>MEDIUM HARDENER</i></b>
<b><i>P210-877</i></b>	<b><i>SLOW HARDENER</i></b>
<b><i>P850-1775</i></b>	<b><i>COMPLIANT REDUCER</i></b>

**THESE PRODUCTS ARE FOR THE PROFESSIONAL PAINTING OF AUTOMOTIVE VEHICLES ONLY**

# PROCESS

## HS CLEARCOAT- LV

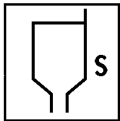
### MIX RATIO



<b>Clearcoat</b> P190-6790	<b>3 parts</b>
<b>Hardener</b> P210-87x	<b>1 part</b>
<b>Reducer</b> P850-1775	<b>1 part*</b>

\*Note: For the standard two coat application method, an additional ½ part of P850-1775 thinner may be add to the mix to improve flow if needed.

### VISCOSITY & POT LIFE



**17-19 seconds**  
DIN 4 @ 70°F\* (21°C)

**Pot Life: 2.5 - 3 hours @ 70°F (21°C)**

\*Note: Pot life will be shortened with increased temperatures

### SPRAY GUN AND AIR PRESSURE



1.2-1.4  
Max 10 psi cap press.

Refer to gun manufacturer's recommendations for air pressure.

### APPLICATION

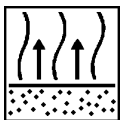


**One Visit :** Apply 1 light to medium flowing coat immediately followed by a second medium wet coat to give 2 – 2.5 mils dry film thickness.

or

**Standard 2-Coat :** Apply 2 single medium wet coats allowing a 5 - 10 minute flash time between each coat, to provide for 2 to 2.5 mils dry film thickness.

### FLASH-OFF



**OneVisit :** On a single vertical panel, allow 1 minute of flash time between the 1<sup>st</sup> and 2<sup>nd</sup> coats. For two or more panels, no flash time between coats is required.

or

**Standard 2-Coat :** Allow 5 to 10 minutes between coats depending on your spray booth conditions and / or hardener or thinner combination.

### DRYING TIME



<b>Air Dry @ 70°F (21°C)</b>	
Dust Free	20-40 min.
Handle	Overnight
Polishing	Overnight

**Force Dry @ 140°F (60°C) Metal temperature**  
30 minutes

**I-R**  
8 -15 minutes, Full power

# HS CLEARCOAT-LV

## Weight Activation Chart for P190-6790 HS Clearcoat-LV 3:1:1

Volume of RFU Clearcoat Required	Cumulative Weight in Grams		
	P190-6790 Clearcoat	P210-87X Hardener	P850-1775 Reducer
¼ Pint / 4 oz.	80.2	105.5	137.2
½ Pint / 8 oz.	160.4	210.9	274.5
¾ Pint / 12 oz.	240.5	316.4	411.7
1 Pint / 16 oz.	320.7	421.8	548.9
1.5 Pint / 20 oz.	400.9	527.3	686.2
1.75 Pints / 28 oz.	561.3	738.2	960.6
1 Quart / 32 oz.	641.4	843.6	1097.8
1.5 Quart / 40 oz.	962.2	1265.4	1646.8
2 Quart / 64 oz.	1282.8	1687.2	2195.7

## SUBSTRATES

P190-6790 HS Clearcoat-LV can be applied over Aquabase Plus basecoat after allowing proper dry time.

## OPTIONAL PLASTICS APPLICATION

<b>P190-6790</b>	<b>Clearcoat</b>	<b>5 Parts</b>
<b>P100-2021</b>	<b>LV Flexible Additive</b>	<b>1 Part</b>

This mixture should then be activated and thinned as normal

When used on plastic parts, P190-6759 does not require the use of P100-2021. However, for very flexible or leading edge parts such as bumper covers and fascias, the addition of P100-2021 will improve overall flexibility.

## RECOATABILITY

P190-6790 HS Clearcoat-LV used with Hardeners P210-872 fast, P210-875 medium or P210-877 slow are fully recoatable after overnight air dry at 70°F (21°C).

When force dried for the recommended times and metal temperatures, P190-6790 is fully recoatable after cooling down.

## POLISHING

Polishing is not normally required. If, however, polishing is required to remove minor dirt nibs, wet sand with P1500 wet and follow normal polishing procedures.

# HIGH SOLIDS CLEARCOAT-LV

## PROCESS NOTES

For optimum performance, paint systems should not be applied cold. For best results, allow adequate time for paint to reach 70°F (21°C).

### Fading Out

After spot repairing, Use OneChoice® SXA840 blending solvent and apply starting from the outside of the repair moving towards the center of the repaired area to lose the clearcoat blend edge.

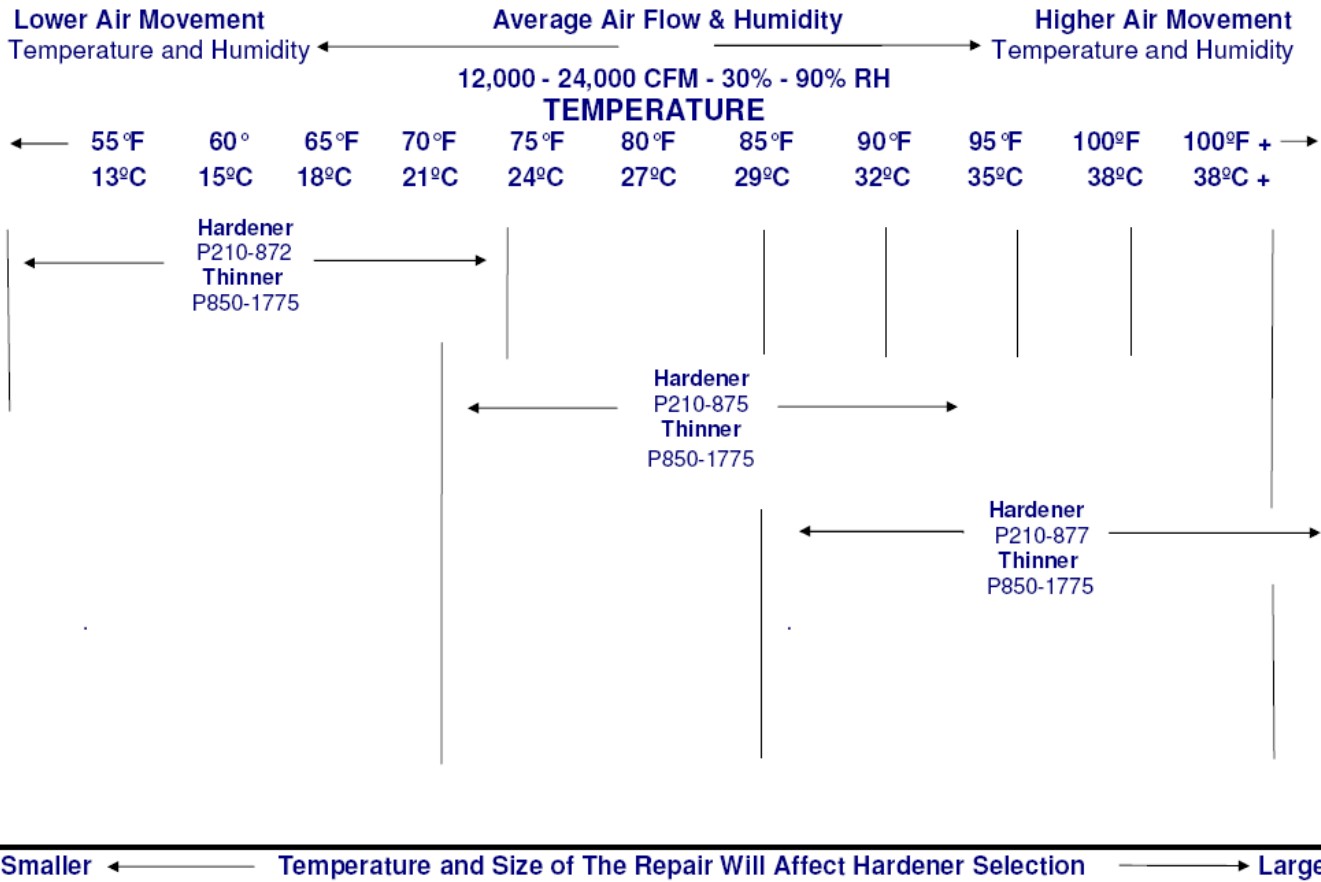
## EQUIPMENT CLEANING

Approved Cleaning Solvent

## PERFORMANCE SPECIFICATIONS

	Standard P190-6790 : P210-87X : P850-1775	Standard P190-6790 :P210-87X : P850-1775	Flexible (Premix P190-6790 : P100-2021 @ 5:1) P190-6790 : P210-87X : P850-1775+P100-2021
<b>RTS Combinations:</b>			
Volume Ratio:	3:1:1	3:1:1 .5	3:1:1
Applicable Use Category	Clear Coating	Clear Coating	Clear Coating (flexed)
VOC Actual (g/L)	155	139	136
VOC Actual (lbs/gal)	1.29	1.17	1.14
VOC Regulatory (less water less exempt) (g/l)	249	249	236
VOC Regulatory (less water less exempt) (lbs/gal)	2.08	2.08	1.97
Density (g/L)	1164	1179	1174
Density (lbs/gal)	9.71	9.84	9.80
Volatiles wt. %	57.1	61.5	59.9
Water wt. %	0.0	0.0	0.0
Exempt wt. %	43.8	49.7	48.3
Water vol. %	0.0	0.0	0.0
Exempt vol. %	38.0	44.0	42.3
Solids vol. %	44.4	40.1	42.2
Sq Ft. Coverage / U.S.gal. 1 mil. @ 100% transfer efficiency	712	643	677

## P190-6790 HIGH SOLIDS CLEARCOAT-LV HARDENER SELECTION GUIDE



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