

## PDS N5.9.1 March 2005

> AUTOCOLOR

# P190-643

# **HS CLEARCOAT**

## **PRODUCT DESCRIPTION**

**P190-643** is a premium quality High Solids Acrylic Urethane Clearcoat. When combined with Nexa Autocolor Hardeners and Thinners, HS Clearcoat provides an easy to apply, smooth and glossy finish.

• Easy Application = consistent results • HS Clearcoat System = labor and material savings • Versatility = Performance in multiple environments



## HS CLEARCOAT

PRODUCTS	
P190-643	HS Clearcoat
P210-854	HS Hardener - Low-Mid Temperature
P210-856	HS Hardener - Mid Temperature
P210-857	HS Hardener - High Temperature
P850-1692	Thinner - Low Temperature
P850-1693	Thinner - Mid Temperature
P850-1694	Thinner - High Temperature
P850-1695	Thinner - Very High Temperature
P275-350	HS Topcoat Accelerator

THESE PRODUCTS ARE FOR THE PROFESSIONAL PAINTING OF AUTOMOTIVE VEHICLES ONLY

	PROCESS			
	HS Express	HS		
	ClearcoatP190-6434 partsHardenerP210-8542 partsThinnerP850-16XX1 partAcceleratorP275-35010%Note: Express process can only be mixed with P210-854 Hardener.	ClearcoatP190-6434 partsHS HardenerP210-85X2 partsThinnerP850-16XX1 part		
VISCOSITY & POT LIFE	Viscosity: 14-16 seconds DIN 4 @ 70°F (21°C) Pot Life:	Viscosity: 16-17 seconds DIN 4 @ 70°F (21°C) Pot Life:		
	2 hrs. @ 70°F (21°C)	4 hrs. @ 70°F (21°C)		
SPRAY GUN & AIR PRESSURE	<b>Siphon:</b> 1.4-1.8mm (.055"070") 50-55 psi at the gun. <b>Gravity:</b> 1.3-1.6mm (.050"063") 50-55 psi at the gun. <b>HLVP:</b> 0.8-1.5mm (.031"059") Max 10 psi cap press. 3-8 psi fluid press. (pressurised cup)	<b>Siphon:</b> 1.4-1.6mm (.055"063") 50-55 psi at the gun <b>Gravity:</b> 1.3-1.6mm (.050"063") 50-55 psi at the gun <b>HVLP:</b> 0.8-1.5mm (.031"059") Max 10 psi cap pressure 3-8 psi fluid pressure (pressurized cup).		
	(HVLP: Refer to gun manufacturer's reco	ommendations for required inlet pressure.)		
	<b>2 single coats</b> (approx. 2.5 mils)	<b>2 single coats</b> (approx. 2.5 mils)		
	<ul><li>5-10 minutes between coats</li><li>Note: No flash-off is necessary before force drying.</li></ul>	5-10 minutes between coats. Note: No flash-off is necessary before force drying.		
DRYING TIME	Air Dry @ 70°F (21°C) Dust Free 10 min. Handle 2 hrs. Polishing 4 hrs Force Dry @ 140° (60°C) (metal temperature) 10 minutes	Air Dry @ 70°F (21°C)   Dust Free 10-15 min.   Handle 4-6 hrs   Polishing 12-16 hrs   Force Dry @ 140° (60°C) (metal temperature)   P210-854 20 min.   P210-856 30 min.   P210-857 40 min.		

## HS CLEARCOAT

## WEIGHT MIX RATIOS FOR P190-643

HS Clearcoat P190-643 4:2:1			Mix Ratio By Weight (Cumulative Weight in Grams)			
Product		Ratio	1/2 Pint	1 Pint	1 Quart	2 Quart
HS Clearcoat	P190-643	4	129	258	516	1032
HS Hardener	P210-854/6/7	2	197	393	786	1572
Thinner	P850-16XX	1	223	447	893	1786

#### HS Clearcoat P190-643 4:2:1:10%

Express		Mix Ratio By Weight (Cumulative Weight in Grams)				
Product		Ratio	1/2 Pint	1 Pint	1 Quart	2 Quart
HS Clearcoat	P190-643	4	117	235	469	938
HS Hardener	P210-854	2	179	358	715	1430
Thinner	P850-16XX	1	203	406	812	1624
Accelerator	P275-350	10%	223	447	893	1786

#### Note: Express process can only be mixed using P210-854 Hardener.

**Note:** These weights will produce approximately 97.5% of the volume stated to allow for mixing. If an exact quart, pint, half-pint, etc. is required, multiply all weights by 1.025. All weights have been rounded off to whole numbers.

### **EQUIPMENT CLEANING**

HS Clearcoat (P190-643) can be applied over 2K<sup>™</sup> Basecoats after allowing proper dry time.

When using over plastic substrates refer to "Plastics Painting Process," PDS N7.1.

## RECOATABILITY

HS Clearcoat (P190-643) used with HS Hardeners

(P210-854, P210-856 or P210-857) are fully recoatable after 16 hours air dry  $70^{\circ}$  F (21°C).

HS Clearcoat (P190-643) when force dried for recommended times is fully recoatable after cooling down.

## HS CLEARCOAT

## 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.

## **PROCESS NOTES**

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

For blending of HS Clearcoat (P190-643) refer to PDS N7.3

In the event of fish-eyes, add 1-2 inner capfuls of P273-1086 (Fish-Eye Preventer) to 1 quart of HS Clearcoat (P190-643) Ready-for-Use.

## **EQUIPMENT CLEANING**

Approved cleaning solvents

## **2K<sup>™</sup> PERFORMANCE SPECIFICATIONS**

Product:	P190-643 HS Clearcoat	
Category:	Topcoat	
VOC As Packaged:	4.02 lbs. per gal/482gm/l	
VOC (RFU):	4.30 lbs. per gal/515 gm/l (Maximum)	
Product:	P273-1086	
Category:	Specialty	
VOC As Packaged:	7.2 lbs. per gal/862 gm/l	
Clearcoat Data:		
Weight Solids (RFU):	47.1% @ 4:2:1/ 44.8% @ 4:2:1:10%	
Volume Solids (RFU):	40.1% @ 4:2:1/ 40.3% @ 4:2:1:10%	
Pencil Hardness:	2H*	
Chemical Resistance:	Excellent *	
*Test Methods: ASTM D3363-74 and ASTM D1308-97		

For further information please contact:

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