

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	Siphon: 1.4-1.8mm (.055"070") 50-55 psi at the gun. Gravity: 1.3-1.6mm (.050"063") 50-55 psi at the gun. HLVP: 0.8-1.5mm (.031"059") Max 10 psi cap press. 3-8 psi fluid press. (pressurised cup)	Siphon: 1.4-1.6mm (.055"063") 50-55 psi at the gun Gravity: 1.3-1.6mm (.050"063") 50-55 psi at the gun HVLP: 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.)		
	2 single coats (approx. 2.5 mils)	2 single coats (approx. 2.5 mils)		
	5-10 minutes between coatsNote: No flash-off is necessary before force drying.	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.		

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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[™] 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° F (21°C).

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

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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° 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[™] 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:

Nexa Autocolor-USA 19699 Progress Drive Strongsville, OH 44149 Nexa Autocolor-Canada

2301 Royal Windsor Drive Mississauga, Ontario L5J 1K5