

# Product Data Sheet

May 2008

INTERNATIONAL MASTER  
FOR PROFESSIONAL USE ONLY



# J2630V

## HS Plus Clearcoat P190-6683

<i>Product</i>	<i>Description</i>
P190-6683	HS Plus Clearcoat
P210-8620	2K Medium Hardener
P210-8615	2K Fast Hardener
P850-1490/-1491/-1492/1493/-1494/1495	2K Thinners
P850-1692/1693/1694	2K Low VOC Thinner
P850-1621	Aerosol Fade-out Thinner

### Product Description

P190-6683 is a high solids, HS Plus Clearcoat for application over single or multistage waterborne basecoats.

This Clearcoat in combination with these particular hardeners gives excellent scratch resistance as required by many OEM's.

P190-6683 has been designed for use in two modes, standard "one visit" application, where 1 light/medium flowing coat is followed by a full coat with no flash-off between coats, or a 2 coat application

Product Data Sheet

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## General Process Notes

### RATIOS FOR MATT, TEXTURE AND FLEXIBLE OPTIONS

Using P565-554, it is possible to reduce the gloss of P190-6683. The addition of P565-7210/7220 can be used to give a textured finish. For use over flexible substrates, P100-2020 should also be used.

The following tables give a **1L WEIGHT MIX** for various topcoat appearances, ready to spray. The weights in grams are cumulative. **DO NOT TARE** the scale between additions.

#### Guide for using 2K Thinners P850-1491/1492/1493/1494

Substrate	Appearance	P190-6683	P565-554	P565-7210	P565-7220	P100-2020	HS Hardener	Thinner 14**
<b>Rigid</b>	Gloss	670g	-	-	-	-	912g	997g
	Semi-gloss	393g	755g	-	-	-	897g	990g
	Matt	281g	657g	-	-	-	758g	980g
	Fine Textured	288g	-	643g	-	-	746g	973g
	Coarse Textured	393g	-	-	710	-	852g	976g
<b>Flexible</b>	Gloss	546g	-	-	-	681g	879g	999g
	Semi-gloss	302g	631g	-	-	685g	931g	1002g
	Matt	218g	657g	-	-	696g	893g	996g
	Matt Textured	211g	-	522g	-	597g	787g	986g
	Coarse Textured	281g	-	-	507g	606g	860g	993g

#### Guide for using 2K Thinners P850-1692/1693/1694

Substrate	Appearance	P190-6683	P565-554	P565-7210	P565-7220	P100-2020	HS Hardener	Thinner 16**
<b>Rigid</b>	Gloss	670g	-	-	-	-	912g	987g
	Semi-gloss	393g	755g	-	-	-	897g	979g
	Matt	281g	657g	-	-	-	758g	953g
	Fine Textured	288g	-	643g	-	-	746g	946g
	Coarse Textured	393g	-	-	710	-	852g	961g
<b>Flexible</b>	Gloss	546g	-	-	-	681g	879g	985g
	Semi-gloss	302g	631g	-	-	685g	931g	994g
	Matt	218g	657g	-	-	696g	893g	984g
	Matt Textured	211g	-	522g	-	597g	787g	963g
	Coarse Textured	281g	-	-	507g	606g	860g	977g

**Note:** The use of these plastic additives will significantly reduce the scratch resistant properties of this clearcoat.

## General Process Notes

### FADE-OUT PROCESS

P190-6683 HS Plus Clearcoat may be faded-out using the **Aerosol Fade Out Thinner, P850-1621**. Please refer to the Aerosol Fade-out Process Technical Data Sheet for details of the technique to achieve a repair.

### CHOICE OF THINNER

The choice of thinner will be either the 14xx series or the 16xx series thinners, and should be made according to application temperature, air movement and size of job. The recommendations below are for guidance only :-

<b>Thinner: 14xx 2K Thinner</b>	<b>Ideal temperature range:</b>
P850-1490 Extra Fast	10-20°C
P850-1491 Fast	15-25°C
P850-1492 Medium	20-30°C
P850-1493 Slow	25-35°C
P850-1494 Extra Slow	30-40°C
P850-1495 High Temperature	35-45°C
<b>Thinner: 16xx 2K Low VOC Thinner</b>	<b>Ideal temperature range:</b>
P850-1692 Low VOC Thinner Fast	up to 22°C
P850-1693 Low VOC Thinner Medium	20-32°C
P850-1694 Low VOC Thinner Slow	above 30°C

In general use a slower thinner in fast air movement booths, for large jobs and for high temperature application. Use a faster thinner in slow air movement booths, for small jobs and application at cooler temperatures.

### PAINT TEMPERATURE

As with all paint systems, optimum spray application is achieved if the paint, hardener and thinner, are allowed to reach room temperature (20-25°C) before use. This is particularly important for high solids systems. Application performance may be adversely affected if paint is allowed to cool to 15°C or below

### INFRA-RED DRYING

Drying times are dependent upon colour and equipment. Refer to manufacturer's instructions for set-up details.

When using Aquabase Plus basecoat, it is particularly important to ensure the basecoat is thoroughly dry before applying the clearcoat.

### RECOATABILITY

P190-6683 is fully recoatable after the "into-service" times.

### RECTIFICATION AND POLISHING

Polishing is not normally required as P190-6683 has a gloss finish. However, if dirt is a problem, denib with **3M Trizact™**, then polish by machine using a quality polish such as SPP Polishing System (refer to SPP PDS). For optimum appearance, finish with a Non Silicone Finishing Glaze. Polishing of P190-6683 is easiest between 1 and 24 hours after "into service" drying times.

### OTHER POINTS TO NOTE

When using 2-pack products it is highly recommended to clean the gun thoroughly immediately after use.

## General Process Notes

### GUIDELINES FOR WEIGHT MIXING

Where a specific volume of clearcoat mix is required, this may be best achieved by weight mixing, using the guidelines below. The weights are cumulative - please do **NOT** tare the balance between additions.

#### WEIGHT MIX GUIDE using 14xx thinners

Target Volume of RFU Paint required (Litres)	Weight P190-6683	Weight P210-8615/8620	Weight P850-1490/1/2/3/4/5
0.10 L	67 g	92 g	99 g
0.20 L	135 g	184 g	199 g
0.25 L	169 g	229 g	249 g
0.33 L	223g	303 g	329 g
0.50 L	339 g	459 g	499 g
0.75 L	508 g	688 g	748 g
1.0 L	677 g	918 g	997 g
1.5 L	1016 g	1376 g	1496 g
2.0 L	1354 g	1835 g	1994 g
2.5 L	1693 g	2294 g	2493 g

#### WEIGHT MIX GUIDE using 16xx thinners

Target Volume of RFU Paint required (Litres)	Weight P190-6683	Weight P210-8615/8620	Weight P850-1692/1693/1694
0.10 L	67 g	92 g	97 g
0.20 L	135 g	184 g	194 g
0.25 L	169 g	229 g	242 g
0.33 L	223g	303 g	320 g
0.50 L	339 g	459 g	484 g
0.75 L	508 g	688 g	726 g
1.0 L	677 g	918 g	968 g
1.5 L	1016 g	1376 g	1452 g
2.0 L	1354 g	1835 g	1936 g
2.5 L	1693 g	2294 g	2420 g



**VOC INFORMATION**

The EU limit value for this product (product category: IIB.d) in ready to use form is max. 420g/litre of VOC. The VOC content of this product in ready to use form is max. 420g/litre. Depending on the chosen mode of use, the actual ready to use VOC of this product may be lower than that specified by the EU Directive code.

**NOTE:**

Combinations of this product with P565-554, P100-2020, P565-7210 or P565-7220 will produce a paint film with special properties as defined by the EU Directive code.

**In these specific combinations:** The EU limit value for this product (product category: IIB.e) in ready to use form is max. 840g/litre of VOC. The VOC content of this product in ready to use form is max. 840g/litre.

**These products are for professional use only**, and are not to be used for purposes other than those specified. The information on this TDS is based on present scientific and technical knowledge, and it is the responsibility of the user to take all necessary steps in order to ensure the suitability of the product for the intended purpose.

For Health and Safety information please refer to the material Safety Data Sheet, also available at: [http://www.ppg.com/Autocolor\\_MSDS](http://www.ppg.com/Autocolor_MSDS)

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