

Kia Stinger – Service Campaign Sunset Yellow S7Y Color Matching

Kia Motors is implementing a Service Campaign on 2018 Stinger vehicles with Sunset Yellow color code S7Y. This campaign includes potential refinishing of exterior portions of the car. Because the entire car is not being refinished, achieving a color match equal to the original from painted to unpainted panels is critical. This TSB outlines the process suggested to achieve this target.

1)



Assess the current color match.

- Visually evaluate the original color match from the vehicle body to the bumper covers.
 - o *If the body and bumpers appear to be different shades digital color measurements of each will be required. Since the bumpers are not being painted having a formula to match them is required. See steps 12 and 13.*



2)



Measure the vehicle color.

- Use the Automatchic Vision color tool to measure the vehicle color.
 - o It is critical that the Digital Color Process is followed closely.
 - o Using the Smart Search Open (unfiltered method) for a good color result is advised.



3)



Clean color check panels

- Clean several metal sprayout panels with an appropriate surface cleaner.
 - o Choices include Sikkens M600 or AutoPrep UltraPrep depending on VOC requirements.



4)



Primer	Colorbuild Plus 250 Formula			Colorbuild Plus Formula		
	1 Liter	2 Liters	3 Liters	1 Liter	2 Liters	3 Liters
Yellow	1395.4g	2790.8g	4186.2g	1288.2g	2576.3g	3864.5g
Red	10.5g	20.9g	31.4g	9.7g	19.4g	29.1g
White	279.1g	558.2g	837.2g	257.7g	515.3g	773.0g

5)



Prime color check panels.

- Prime several metal sprayout panels with the yellow Colorbuild Plus or Colorbuild Plus 250 formulas in step #4.
 - o Mix and apply primer per TDS for the primer surfacer and dry.

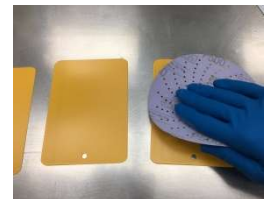


6)



Sand the color check panels.

- Sand the dried Colorbuild Plus Surfacer with P500 to P600 dry to remove any orange peel.



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7)



Clean color check panels

- Clean sanded sprayout panels with an appropriate surface cleaner.
 - o Choices include Sikkens M600 or AutoPrep UltraPrep depending on VOC requirements.



8)



Mix Autowave basecoat color

- Mix the color created with the Automatchic and Color Manager computer system.
 - o Reduce color 10% by volume with Autowave Activator WB.



9)



Apply Autowave color

- Apply 3 coats of the mixed and reduced Autowave color as per the Sikkens Autowave TDS.



10)



Mix clearcoat

- VOC Regulated Market – Sikkens Autoclear Superior 250, 2-Pack.
 - o Mix as per product TDS.
- National Rule VOC Market – Sikkens Autoclear HS Plus, 2-Pack.
 - o Mix as per product TDS.



11)



Apply clearcoat

- Apply 2 coats of the mixed clearcoat as per the product TDS.
 - o Ensure all color verification is done with clearcoated sprayouts.



12)



Visually evaluate the original color match

- If the color on the sprayout card is a good match to the car and bumper covers, use that formula for the repair.
 - o If the color needs adjustment, use the Automatchic digital color correction process to refine the formula and repeat steps 5 through 11 on one of the remaining panels already created.
 - o If the body color measurement is not a suitable match to the bumpers; check the bumper color measurement sprayout, verify color match and refinish per step 13.



13)



Match bumpers and car

- If there is a shade difference between body and bumpers; apply verified bumper color to body areas where the bumpers meet the body.

