



GLOBAL REFINISH
SYSTEM



January 2019

Process Information

TCB100

Vivid Red – Special Midcoat Concentrate

Application Process

D8199 Vivid Red –

PRODUCTS

Vivid Red – Special Midcoat Concentrate D8199

Process also requires :-

DELTRON® UHS Rapid Clearcoat	D8135
<i>Deltron</i> UHS Hardener	D8302
<i>Deltron</i> Thinners	D8717, D8718, D8719
<i>Deltron</i> Accelerated Thinner	D8714

PROCESS DESCRIPTION

Vivid Red is a tinted clear layer using specialised pigment dispersion technology to give the enhanced depth and clarity required in the latest OEM Candy Apple type colours e.g. Ford Ruby Red and Mazda 46V Crystal Soul Red.



1. REPAIR AND PREPARATION OF SUBSTRATE

- 1.1 The damaged body work of the vehicle should be repaired using a PPG repair and undercoating system for the substrate of the body panels being repaired (Aluminium, Steel, Plastic etc.)
- 1.2 Finish the repair with the recommended Greymatic Primer shade for the specific colour to be applied.
- 1.3 When preparing the substrate suitable colour panels should be prepared alongside in the same Greymatic shade for use when checking the colour/effect of the full Vivid Red Colour Process.

2. VIVID RED COLOURS – CHECKING COLOUR MATCH

Colours containing the D8199, Vivid Red Concentrate will be listed in Colour IT (PAINTMANAGER®), showing the blend of D8199 to D8135 required for a particular OEM colour.

When using the Vivid Red type colours and process it is important to create colour panels to ensure the correct blend of D8199 with D8135 is used to achieve the required colour depth and effect of the vehicle being repaired.

Due to the UHS nature of the tinted Midcoat layer, varying the number of coats, to achieve the correct depth of red, is not possible and only the recommended number of coats of this layer must be applied.

To increase or decrease the depth of this layer the ratio of D8199 to D8135 should be altered depending on the direction required from the starting ratio e.g. 50/50 D8199/D8135, remembering that the recommended number of coats and film thickness must remain fixed.



Clear	Percentage (%) Weight Mix				
D8199	25	35	50	65	75
D8135	75	65	50	35	25
	<<< Lighter (less Red)		Starting Point	Darker (more Red) >>>	

To produce the colour panels, use the full panel application process described below.

A full panel, “edge to edge” colour match is possible but is more difficult to achieve and could require more time spent on the colour checking process, therefore it is highly recommended to follow the Fade Out process as the preferred option.

For Mazda 46V a 60%(D8199)/40%(D8135) mix provide a good match. Color panels still have to be done

In order to define how many coats of the mix are needed to achieve best possible color match

3. VIVID RED MIDCOAT LAYER ACTIVATION

D8199/D8135 Mix	By Volume
D8302 UHS Hardener	3 Parts
D8714/D8717/D8718/D8719 Thinners	1 Part
	0.6 Part

[Weight activations for the pre-mixed tinted layer can be found in the Colour RFU section of PaintManager](#)

4. VIVID RED COLOURS – SYSTEM APPLICATION PROCESSES – FADE OUT

Fadeout Option 1:

- Finish the repair with the recommended Greymatic Primer shade for the specific colour.
- Prepare panel as recommended for a blending process.
- Apply ENVIROBASE® High Performance Basecoat (Main Layer from Colour IT).
- Application 3 coats + 1 light coat of *Envirobase* High Performance basecoat to reach opacity/eveness.
- Flash off between coats as recommended.
- Use recommended fadeout process for *Envirobase* High Performance basecoat.
- Mix the tinted midcoat layer (blend of D8199 + D8135 as confirmed from colour sprayout panels). Then activate @ 3: 1:0.6 ratio with D8302 hardener + Thinner.
- Apply 1 visit coat of tinted midcoat layer over the basecoat, applying 1 light/medium coat followed by a full coat. Allow 1 - 2 minutes flash between spray coats.
- Melt the edge of midcoat layer with Aerosol Spot Blender – D8731.
- Flash off 30 min @ 20°C then apply D8135 for final gloss as best choice but any PPG UHS clear could be used.

These products are for professional use only.

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4. VIVID RED COLOURS – SYSTEM APPLICATION PROCESSES – FADE OUT (CONT.)

Fadeout: Option 2:

- Finish the repair with the recommended Greymatic Primer shade for the specific colour to be applied.
- Prepare panel as recommended for a blending process.
- Apply *Envirobase* High Performance Basecoat (Main Layer from Colour IT).
- Application 3 coats + 1 light coat of *Envirobase* High Performance basecoat to reach opacity/eveness.
- Flash off between coats as recommended.
- Use recommended fadeout process for *Envirobase* High Performance basecoat.
- Mix the tinted midcoat layer (blend of D8199 + D8135 as confirmed from colour sprayout panels). Then activate @ 3: 1:0.6 ratio with D8302 hardener + thinner.
- Apply 1 visit coat of tinted midcoat layer over the basecoat, applying 1 light/medium coat followed by a full coat. Allow 1 - 2 minutes flash between spray coats.
- Bake the spot of blended tinted mid layer binder according to the schedule below
 - Using accelerated thinner D8714 - 15min@ 60°C.
 - Using thinners D8717/D8718/D8719 - 30min@ 60°C.
- Wet machine sand the edge with a suitable blend/finishing disc, taking care to remove any over spray to the entire panel.
- Apply any PPG Clear coat to the whole panel to achieve the final gloss.



5. VIVID RED COLOURS – SYSTEM APPLICATION PROCESSES – FULL PANELS

Option 1:

- Apply *Envirobase* High Performance Basecoat (Main Layer from Colour IT) over the correct grey primer shade . This is important to achieve the final color.
- Apply *Envirobase* High Performance as recommended, two to three coats to achieve full opacity plus one final control coat.
- Leave *Envirobase* High Performance to flash off for 30' at 20-23°C.
- Mix the tinted midcoat layer (blend of D8199 + D8135 as confirmed from colour sprayout panels). Then activate @ 3: 1:0.6 ratio with D8302 hardener + thinner.
- Apply 1 light/medium coat followed by a full coat. The first coat should be applied to all repair panels before the second coat is applied. For less than 3 panels, allow 2-3 minutes flash between spray coats. For more than 3 panels, no flash off is required.
- Avoid any heavy application to reduce risk of fat edges/ framing.
- Bake at the schedule below:
 - Using accelerated thinner D8714 - 15min@ 60°C.
 - Using thinners D8717/D8718/D8719 - 30min@ 60°C.
- Leave to cool down fully then wet sand with DA P1500.
- Clean and apply any PPG Clear desired for final gloss.
(NOTE: Use this process for best appearance)

Option 2:

- Apply *Envirobase* High Performance Basecoat (Main Layer from Colour IT) over the correct grey primer shade. This is important to achieve the correct final color.
- Apply *Envirobase* High Performance as recommended, two to three coats to achieve full opacity plus one final control coat.
- Mix the tinted midcoat layer (blend of D8199 + D8135 as confirmed from colour sprayout panels). Then activate @ 3: 1:0.6 ratio with D8302 hardener + thinner.
- Apply 1 light/medium coat followed by a full coat.
The first coat should be applied to all repair panels before the second coat is applied.
For less than 3 panels, allow 2-3 minutes flash between spray coats.
For more than 3 panels, no flash off is required.
- Leave *Envirobase* High Performance to flash off for 30' at 20-23°C.
- Avoid any heavy application to reduce risk of fat edges/framing.
- Flash off 30' @ 20°C
- Apply D8135 for final gloss as best choice but any PPG UHS clear could be used.

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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.

HEALTH AND SAFETY

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: www.ppgrefinish.com

PPG Industries (UK) Limited.
Auto Refinish
Customer Service and Sales Group,
Needham Road,
Stowmarket,
Suffolk.
IP14 2AD,
England.
Tel: 01449 771775
Fax: 01449 773480



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