# Technical Bulletin

**Special Tinted Mid-Coat Colour Check Process**

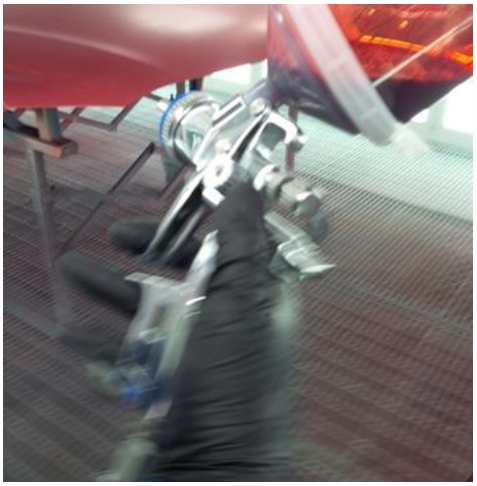
## PRODUCT DESCRIPTION

Certain newer model cars colours utilise tinter in a 2K CLEARCOAT mid-coat layer to produce a very clean “candy apple” red effect. Ford Ruby Red and Toyota Infra-Red / Sonic Red are examples of this.

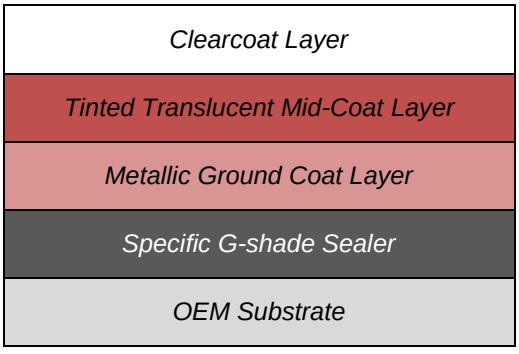
NOTE: The example contained on the following pages is of Ford Ruby Red. Other OEM colour repairs using tinted 2K clear as a mid-coat will be similar.

The repair process utilises a 2K CLEARCOAT tinted mid-coat layer that is applied over AQUAMAX® Extra basecoat systems. The tinted translucent mid-coat layer is made by combining the recommended tinter (e.g. VM4350 Vivid Ruby Tinter) with PC-3320 PARAGLAZE MAXIGLAZE HS CLEARCOAT.

NOTE: These tinted clearcoats can be mixed directly from the RFU FULL LIST in PAINTMANAGER®



This refinish repair consists of a 3 layer process made up of a red metallic ground coat layer, a tinted translucent mid-coat layer followed by a final clearcoat layer. See illustration below.




Brand specific formulas for the ground coat and the tinted mid-coat layer are available in PROTEC® *PaintManager* software or by calling PPG at 1800 076 466.

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## SELECTING THE PROPER PAINT SYSTEM FROM PAINTMANAGER® SOFTWARE

- Searching for the appropriate code in the *PaintManager* program software will enter the user into their primary paint system. Choose the three layer system below for optimum colour match:
    - *AquaMax* Extra 3CT
- The three layer formula starts with a basecoat formula using toners from the *AquaMax* Extra paint system.
- The three layer systems use the same type of tinter for the mid-coat, e.g. Ruby Red uses **VM4350** Vivid Ruby. This special mid-coat tinter is generally from the VIBRANCE® Collection line and it is a limited use tinter, so please check available stock prior to mixing.
    - Note: One container holds 4 oz. of tinter and will tint approximately 12 litres of mid-coat/clearcoat.
- The three layer paint system will express the mid-coat formula as 2 components; tinter (e.g. VM4350) and the clearcoat code:
    - *AquaMax* Extra 3CT **PC-3320**
- Proceed in the PaintManager program software for the clearcoat reduction options.

## PREPARATION OF SUBSTRATE

- Damaged body work must be repaired using the approved *Protec* repair process including selecting the correct under coating system for aluminium, steel and plastic substrates.
- For proper colour alignment, finish the body work with the recommended ground coat for the basecoat system using the correct M-Shade as directed in *PaintManager* program software.

## PREPARATION OF COLOUR CHECK PANEL

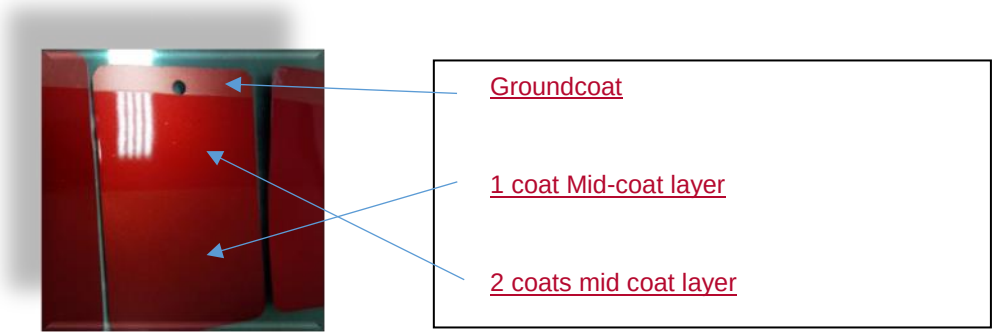
**NOTE: Due to OEM colour variation from model to model it is essential that a colour check panel be prepared to align the colour before applying any ground coat colour to the vehicle. The colour check panel should be prepared as follows:**

- Using the M5 COLOUR SPRAYOUT PANEL – mix and apply the Main Layer (ground coat) until proper coverage is achieved. (Waterborne systems require a control coat as outlined in the Product Data Sheet.)
- Mix and apply the ground coat until proper coverage is achieved (Waterborne systems require a control coat).
- Prepare the tinted mid-coat by mixing the appropriate tinter (e.g. VM4350) with PC-3320 PARAGLAZE MAXIGLAZE HS CLEARCOAT following the *Protec* supplied formula.

**When completing a colour check panel it is strongly recommended to use the same clearcoat that will be used throughout the repair process. A minimum of one final clear layer must be applied over the tinted mid-coat colour check panels.

***The tinted mid-coat must be reduced and catalysed as recommended in PaintManager. See the specific clearcoat product bulletin for proper reduction prior to application.*

- Apply one tinted mid-coat layer over two colour check panels. After flash off, remove one panel and apply a second coat to the remaining panel. Allow to flash completely or IR cure for 10 minutes. *You can use one colour check panel for this and split into two sections as below or use two separate panels*




- Apply one coat of clear only over all panels and allow to dry.

## CHECKING THE COLOUR

- Use the completed colour check panels to evaluate the colour on the car.
- When one of the colour check panels is considered "blendable" to the car, proceed in refinishing the vehicle. Be sure to spray the vehicle in the same manner and technique as the colour check panels to achieve proper colour alignment.
- If a colour adjustment is necessary tint the ground coat or mid-coat layer in the appropriate colour direction and prepare another series of colour check panels by repeating the above process. Continue in this fashion until a blendable match is achieved. Be sure to spray the vehicle in the same manner and technique as the colour check panels.
- **Important:** The tinted mid-coat layer **can only** be tinted with the tinter recommended in the formula. Any colour adjustments must be made to the ground coat.

**NOTE: When completing the repair with *PC-3320 Paraglaze Maxiglaze HS Clearcoat*, clearcoat should be applied over the tinted mid-coat layer. The mid coat layer must be cured/baked for 30 minutes prior to final clearcoat application.**

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Drying times quoted are average times at 20°C/68°F. Film thickness, humidity and shop temperature can all affect drying times.