



GLOBAL REFINISH
SYSTEM



July 2014

Product Information



DELTRON® Progress UHS DG

Ultra-High Solids Direct Gloss Colour

PRODUCTS

<i>Deltron Progress UHS DG Tinters</i>	D60xx
<i>Deltron UHS Hardener</i>	D8302
<i>Thinners</i>	D8717/D8718/D8719
<i>Accelerated Thinner</i>	D8714

For matt, satin and textured finishes or painting of flexible substrates:

<i>Deltron Matting Base</i>	D8456 to create a matt or satin appearance
<i>Deltron Plasticiser</i>	D814 to plasticise finishes over a flexible substrate
<i>Deltron Matt Flexibiliser</i>	D819 to create a matt/satin appearance over a flexible substrate
<i>Deltron Texture Additive</i>	D843 to create a fine textured 'suede' effect
<i>Deltron Leather Grain Additive</i>	D844 to create a coarser, more pronounced textured finish

PRODUCT DESCRIPTION

Deltron Progress UHS DG is a high opacity, ultra high solids topcoat material suitable for all types of repair. It reproduces existing paintwork finished in a direct gloss solid colour.

PREPARATION OF SUBSTRATE



Apply over original stoved finishes or PPG 2K primers:

* See 'Performance and Limitations' section.



Degrease all surfaces to be painted with appropriate PPG substrate cleaner before wet sanding with P600-800 grade paper or dry sanding with P360-400 grade paper.

Wash off residues and dry thoroughly before re-cleaning with appropriate PPG substrate cleaner. See Technical Data Sheet ***Deltron Cleaners RLD63V***.
The use of a tack rag is recommended.



MIXING RATIO

Mix colour thoroughly, for at least 2 minutes, before adding hardener and thinner. Weight mixing is the most accurate method of producing "ready for use" material. However, where volume mixing is necessary use the ratio below:

Mixing Ratio with D8302 UHS Hardener:

	<u>By Volume</u>
Deltron Progress UHS	2.5 vol
UHS Hardener	1 vol
Thinner	0.7 vol.

- Choose Thinner according to application temperature, and drying needs.

HARDENER AND THINNER SELECTION

<u>System</u>	<u>UHS Hardener</u>	<u>Thinner</u>	<u>Bake Schedule</u>
Express	D8302	D8714	15 mins at 60°C
Medium	D8302	D8717 / D8718 / 8719	35 mins at 60°C

MIXED PRODUCT DETAILS

<i>Potlife</i>	Using D8714	15 - 20 minutes
	Using D8717/18/19	1.5 - 2 hours
<i>Spray viscosity:</i>	19 - 24 seconds DIN4 at 20°C	

APPLICATION AND FLASH OFF



Spraygun set-up:

Compliant Spraygun 1.3 - 1.6 mm

Conventional Two Coat Process

<i>Application</i>	Apply 2 single coats to give ~60 microns dry film build.
<i>Flash off between spray coats</i>	5 minutes
<i>Flash off before bake or IR dry</i>	None required before baking; 5 minutes before IR drying.

Express Single Visit Process

<i>Application</i>	Apply 1 medium & 1 full coat to give 50-60 microns dry film build. The first coat should be applied to all repair panels before the second coat is applied.
<i>Flash off between spray coats</i>	For less than 3 panels, 2-3 minutes flash. For more than 3 panels, no flash off is required.
<i>Flash off before bake or IR dry</i>	None required before baking; 5 minutes before IR drying.



DRYING TIMES



*Drying times: ***

- *Through dry at 20°C* 16 hours with D8714 Accelerated Thinner
Not recommended with D8717/18/19
- *Through dry at 60°C* 15 minutes – with D8714
35 minutes – with D8717/18/19
- *Through dry at IR Medium* 6 - 8 minutes - Medium wave
(IR drying is colour dependant)



** Bake times are for quoted metal temperature. Additional time should be allowed in the baking schedule to allow metal to reach recommended temperature.

Total dry film build: 50 - 70 µm

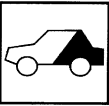
Theoretical coverage: 8-9 m²/l
Assuming 100% transfer efficiency and dry film thickness as indicated.

REPAIR AND RECOATING



Sanding:

Essential before recoating to ensure good adhesion
P400 (dry)
P800 (wet)



Overcoat / recoat time:

- *Force dry 60°C or IR* 1 hour after cooling
- *Air-dry at 20°C* Minimum 24 hours

Overcoat with:

PPG 2K Primers, ENVIROBASE® High Performance, Deltron GRS Topcoats

POLISHING



If polishing is required, i.e. to remove dirt nibs, it is recommended that it is carried out between 1 hour and 24 hours after the quoted drying time. Use PPG Specialty Polishing system SPP1001.

FADE - OUT REPAIR PROCEDURE

- Apply Deltron Progress UHS DG according to the information above
- Apply Deltron UHS Clearcoat over edge of repair.
- Melt overspray edge using D8731 Aerosol Spot Blender or D8430 Spot Blender.
- Refer to datasheet No: RLD299V for successful repair.



PERFORMANCE AND LIMITATIONS



Do NOT use *Deltron* Additives - D885, D886 or D818 with *Deltron* Progress UHS DG topcoats.

Activation and thinning should be carried out just prior to application

Complete application as soon as possible after activation.

EQUIPMENT CLEANING

After use, clean all equipment thoroughly with cleaning solvent or thinner.

MATT, SATIN AND TEXTURED FINISHES PAINTING OF FLEXIBLE SUBSTRATES

To obtain a matt, semi-matt (satin) or textured finish with *Deltron* Progress UHS DG, it is necessary to include matt, flex or texture additives in the mix. Additives are also required when applying UHS over a flexible substrate (typically plastics). The additives required and the appropriate volume and weight mix ratios are indicated in microfiches, or electronic systems, if relevant or in the tables below.

Spray pressure should be increased by 10% to obtain an even aspect on big surfaces when texture additives are used.

Mixing – Volume ratios

Substrate	Appearance	<i>Deltron</i> UHS Colour	D8456	D843	D844	D819	D814	UHS Hardener	Thinner
RIGID	Satin	2 vol	2 vol					1 vol	1 vol
	Matt	1.5 vol	2.5 vol					1 vol	1 vol
	Matt Textured	2 vol	1 vol	3 vol				1 vol	2 vol
	Leather Grain	2 vol	1 vol		1.5 vol			1 vol	1 vol

Mixing – Volume ratios

Substrate	Appearance	<i>Deltron</i> UHS Colour	D8456	D843	D844	D819	D814	UHS Hardener	Thinner
FLEXIBLE	Gloss	2 vol					0.5 vol	1 vol	0.4 vol
	Satin	2 vol	2 vol			0.5 vol		1 vol	0.6 vol
	Matt	1.5 vol	2.5 vol			0.5 vol		1 vol	0.6 vol
	Matt Textured	2 vol	1 vol	2 vol		0.5 vol		1 vol	2 vol
	Leather Grain	2 vol	1 vol		1 vol	0.5 vol		1 vol	1 vol



DELTRON PROGRESS UHS DG WEIGHT MIXING CHART

The weight of the hardener and thinner required by certain volumes of mixed colour to produce ready-for-use paint is detailed below. The weights correspond to the mixing ratio: 2.5 parts *Deltron* Progress UHS DG colour: 1 part D8302 hardener: 0.7 parts D8714/17/18/19/20 thinner.

Stir colour thoroughly before adding hardeners and thinners.

'TARE' the scale after mixing or measuring out the colour. The weights of hardener and thinner are **CUMULATIVE** – DO NOT TARE THE SCALE BETWEEN ADDITIONS.

Volume of UHS DG colour mix	Final ready-for-use volume (@ 2.5/1/0.7 ratio)		Weight of D8302 UHS Hardener	Weight of D8714/17/18/19 Thinner
Litres	Litres		Grams	Grams
0.10	0.17	TARE	41	64
0.20	0.33		82	129
0.25	0.42	SCALES	106	163
0.50	0.84		212	326
1.00	1.68		414	644

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.

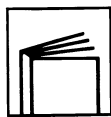
Depending on the chosen mode of use, the actual ready to use VOC of this product may be lower than that specified by the EU Directive code.

Note:

Combinations of this product with D8456, D814, D819, D843 or D844 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.

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

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