



GLOBAL REFINISH
SYSTEM



August 2012

Product Information



2K GREYMATIC UHS PRIMA (UHS HARDENER - D8302)

*D8018 White
D8019 Black
D8024 Grey*

PRODUCT DESCRIPTION

2K GreyMatic UHS Prima is a range of 2K primer surfacers suitable for a wide range of repair work. By simple adjustment of the thinning ratio, 2K GreyMatic UHS Prima may be applied as a primer surfacer, as a high build spray filler, as a wet-on-wet surfacer, or as a Roll Primer.

It can be directly overcoated with Deltron GRS UHS, Deltron Progress UHS DG or ENVIROBASE® High Performance basecoat.

By combining D8018, D8019 and D8024 (see **GreyMatic** section), a range of 4 grey shades can be obtained. By using the relevant grey shade (GreyMatic 1, 3, 5, 6 or 7) as a tinted undercoat, the topcoat consumption and the total repair process time may be reduced.

PREPARATION OF SUBSTRATE – DEGREASING



Before any preparation work, wash all surfaces to be painted with soap and water. Rinse and allow to dry before degreasing with a suitable PPG substrate cleaner: Ensure all substrates are thoroughly cleaned and dried before and after each stage of the preparation work. Always wipe substrate cleaner off the panel surface immediately, using a clean, dry cloth.

Please see **Deltron Cleaners (RLD63V)** Technical Data Sheet for appropriate substrate cleaning and degreasing products.

PREPARATION OF SUBSTRATE - PRIMING & SANDING



Bare Steel should be lightly abraded and completely rust free before application. GreyMatic may be applied directly, but Universel or Epoxy bare metal primers are recommended where optimum adhesion and corrosion resistance is required.



Other bare metals should be pre-primed with either Universel or an Epoxy.

Electropaint should be sanded with P360 grade paper (dry) or P800 grade (wet).



Original Paintwork or Primers should be sanded using P280-P320 grade paper (dry) or P400-P500 grade paper (wet). Spot prime any exposed bare metal with bare metal primer Universel or an Epoxy.



GRP or Fibreglass should be sanded using P320 grade paper (dry).

Polyester Fillers should be dry sanded using a sequence of grade of paper grades suitable for the chosen application of D8018/19/24 :

P80-P120 when using as a spray filler.

P80-P120-P240 when using as a primer surfacer or non-sand surfacer.

HARDENER & THINNER SELECTION

<u>Temperature</u>	<u>UHS Hardener</u>	<u>Thinner</u>
Up to 25°C	D8302	D8715*/D8718
25 - 35°C	D8302	D8719
Above 35°C	D8302	D8719

* **Note – D8715 Productive Thinner should only be used with UHS Hardener in Primer Surfacer and Wet on Wet modes.**

When using GreyMatics as a non-sand surfacer, it is recommended that the same hardener be used in subsequently applied direct gloss colour or clearcoat. Consult the appropriate technical datasheets(s) to identify a suitable common hardener.

MIXING RATIOS

	<u>Spray Filler</u>	<u>Primer Surfacer</u>
UHS Prima	6 vol	6 vol
UHS Hardener	1 vol	1 vol
Thinner	0 – 0.5 vol	1 vol

MIXED PRODUCT DETAILS

<i>Applied as a:</i>	Spray Filler	Primer Surfacer
Potlife at 20°C:	30 - 40min	60 min (30 min with D8715)
Spray viscosity DIN4/20°C:	40 - 85 sec	25 - 35 sec





SPRAYGUN SETUP

<i>Applied as a:</i>	Spray Filler	Primer Surfacer
Fluid Tip, Gravity:	2.0 - 2.2mm	1.6 - 1.8mm
Suction:	not recommended	1.8 - 2.0mm
Pressure:	Follow spraygun manufacturer's recommendations	

APPLICATION GUIDE

<i>Applied as a:</i>	Spray Filler	Primer Surfacer
Number of coats:	max. 3	2 - 3
Flash off/20°C: - between coats	10 minutes	10 minutes
- before stoving	Do not force dry	10 minutes

DRYING TIMES

<i>Applied as a:</i>	Spray Filler	Primer Surfacer
Dust free/20°C	10 minutes	10 minutes
Touch dry/20°C	3 - 4 hours	2 - 3 hours (1 hour with D8715)
 Sandable/20°C (below 100 microns)	5 hours	5 hours (2 hours with D8715)
	(above 100 microns)	6 hours
 Through dry/60°C	Do not force dry	30 minutes* (20 min with D8715)
	Through dry/ IR medium	Do not force dry

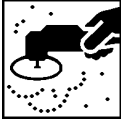
* Drying time once substrate reaches 60°C metal temperature.

FILM PROPERTIES

<i>Applied as a:</i>	Spray Filler	Primer Surfacer
Dry film builds:		
- minimum	100µ	80µ
- maximum	200µ	140µ



SANDING



By machine dry: P400



By hand wet: P800

TOPCOATING

UHS Prima may be overcoated directly with the following topcoat products:

Global Refinish System/Deltron UHS Ultra High Solids Direct Gloss Colour
Global Refinish System/Deltron Progress UHS DG Colour
Envirobase Waterborne Basecoat Colour

LIMITATIONS

Accelerators should NOT be used. Part used cans of hardener must be carefully closed immediately after use. All equipment must be perfectly dry. Use of UHS Prima is not recommended when humidity levels exceed 80%.

FLEXIBLE SUBSTRATES

Mixing Ratio:	UHS Prima	6 vol
	UHS Hardener	1 vol
	D814	1 vol
	Thinner	1 vol

GUIDE TO USING UHS PRIMA AS A WET ON WET SURFACER WITH UHS HARDENER

	<u>By Volume</u>
UHS Prima	6 vol
UHS Hardener	1 vol
Thinner	1.5 vol
Number of coats	1 - 2
Spray viscosity	20 - 25 sec. DIN4/20°C
Flash off @ 20°C	10 minutes between coats.
Drying before Topcoat:	
Before DG UHS or Progress UHS DG	20 - 30 minutes
Before Envirobase Waterborne topcoat	30 minutes.



GUIDE TO USING UHS PRIMA AS A ROLL PRIMER WITH UHS HARDENER

MIXING RATIO

Mixing Ratios – If scales are not available, then primer may be activated by volume.

	<u>By Volume</u>
UHS Prima	6 vol
UHS Hardener	1 vol
Thinner	0.5 vol

Potlife at 20°C: 40 minutes.

Note: It is recommended to use the material immediately after mixing.

Clean roller tray immediately after use.

APPLICATION AND FLASH OFF

1. Use of good quality high density foam rollers is essential. Use of a suitable roller tray allows easy control of paint loading on the roller.
2. Load the roller from a suitable roller tray. Removed excess paint from the roller.
3. The first coat covers the largest area. Subsequent coats cover smaller areas.
4. Apply paint from the centre of the repair patch, rolling outwards using light pressure.
5. Use the roller with less paint loading to fade hard edges of each coat.
6. Allow the paint to flow out on the panel; avoid over- working, which can leave an uneven surface.
7. When one coat becomes matt, it is ready for the next coat.

Number of coats: Apply 4 coats to give a film thickness of 75 - 125 microns (3 - 5 thou.)

Flash-off at 20°C: Between coats Approx. 5 minutes

DRYING TIMES

Air-dry at 20°C: 3 - 4 hours (Depending on film thickness)

Stoving at a metal temperature of 60°C : 20 - 30 minutes

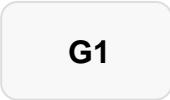



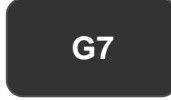
Infra-red drying times given require the short wave infra-red lamp to be positioned 70-100 cm away from the panel. Use IR unit on half power for 5 minutes before applying full power for approximately 15 minutes. Drying times will depend on the type of infra-red lamp used. Drying time will depend on film thickness.



GREYMATIC SELECTION

GreyMatic shades are selected according to topcoat colour. The recommended GreyMatic shade for any colour can be referenced in the PPG colour information systems.

As a guide, see below.

G1 D8018	G3 D8018 70% D8024 30% (Mix by Wt.)	G5 D8024	G6 D8024 40% D8019 60% (Mix by Wt.)	G7 D8019
				
<u>Use under:</u> Whites Light Greys Light Yellows Light Greens Light blues	<u>Use under:</u> Medium greys Yellows	<u>Use under:</u> Dark greys Dark Yellows Greens Blues Light and medium reds	<u>Use under:</u> Dark greys Medium/Dark Greens/Blues Medium/Dark Reds	<u>Use under:</u> Blacks Dark greens Dark blues Dark reds

After selecting the correct GreyMatic shade for the topcoat colour (each colour has a Greymatic shade recommended on colour IT), the primer shades are made by reference to the chart above. GreyMatic 1, 5 and 7 are available straight from the can. GreyMatic 3 and 6 are a blend of D8018/D8024 or D8024/D8019 as indicated above. Mix with hardener & thinner as indicated in this TDS before application.

VOC INFORMATION

The EU limit value for this product (product category: IIB.c) in ready to use form is max. 540g/litre of VOC. The VOC content of this product in ready to use form is max. 540g/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 D814 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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