



GLOBAL REFINISH
SYSTEM



November 2007

Product Information



2K GREYMATIC UHS PRIMA

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. Versatile, quick-drying and easy to apply and sand, they offer excellent corrosion resistance, film build, surface leveling and gloss holdout over a wide range of substrates such as sound original paintwork, bare steel, polyester body fillers and suitable adhesion primers.

By simple adjustment of the thinning ratio, 2K GreyMatic UHS Prima may be applied as a primer surfacer, as a high build spray filler, or as a wet-on-wet surfacer. 2K GreyMatic UHS Prima may be air dried, low baked or IR cured.

It can be directly overcoated with Deltron GRS DG, Deltron GRS BC, Deltron GRS UHS, Deltron Progress UHS DG or Envirobase 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 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 D8023 :
P80-P120 when using as a spray filler.
P80-P120-P240 when using as a primer surfacer or non-sand surfacer.

HARDENER & THINNER SELECTION

Using:

HS Hardeners

MS Hardeners

<u>Temperature</u>	<u>HS Hardener</u>	<u>Thinner</u>	<u>MS Hardener</u>	<u>Thinner</u>
Up to 18°C	D8208	D808	D803/D864	D808
18-25°C	D897	D866/D807	D841	D866/D807
25-35°C	D897	D812	D861	D812
Above 35°C	D897	D869	D861	D869

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

1. Mixing Ratios using HS Hardeners:

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

2. Mixing Ratios using MS Hardeners:

	<u>Spray Filler</u>	<u>Primer Surfacer</u>
UHS Prima Hardener	4 vol	4 vol
Thinner	1 vol	1 vol
	0 – 0.5 vol	0.8 vol

These products are for professional use only.

RLD193V

Page 2



MIXED PRODUCT DETAILS

<i>Using:</i>	HS Hardeners		MS Hardeners	
<i>Applied as a:</i>	Spray Filler	Primer Surfacer	Spray Filler	Primer Surfacer
Potlife at 20°C:	30-40min	60min	30-60 min	75 min
Spray viscosity DIN4/20°C:	40-85 sec	25-35 sec	25-60 sec	20-30 sec

SPRAYGUN SETUP



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

APPLICATION GUIDE

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



DRYING TIMES

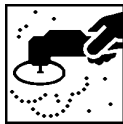
	<i>Using:</i>	HS Hardeners		MS Hardeners	
		<i>Applied as a:</i>	Spray Filler	Primer Surfacer	Spray Filler
	Dust free/20°C	10 minutes	10 minutes	10 minutes	10 minutes
	Touch dry/20°C	3-4 hours	2-3 hours	3 hours	2 hours
	Sandable/20°C (below 100 microns) (above 100 microns)	5 hours 6 hours	5 hours 6 hours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

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

FILM PROPERTIES

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

<i>Using:</i>	HS Hardeners	MS Hardeners
Mixing Ratio:	UHS Prima 6 vol	UHS Prima 4 vol
	Hardener 1 vol	Hardener 1 vol
	D814 1 vol	D814 1 vol
	Thinner 1 vol	

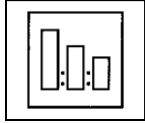
GUIDE TO USING UHS PRIMA AS A WET ON WET SURFACER WITH HS HARDENERS

Mixing Ratios using HS Hardeners:

	<u>By Volume</u>
UHS Prima	6 vol
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, BC, or Progress UHS DG	20-30 minutes
Before Envirobase Waterborne topcoat	30 minutes.



GREYMATIC UHS PRIMA



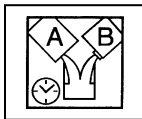
Mixing by volume

With HS Hardener -

As Spray Filler	6 : 1 : 0 - 0.5
As Primer Surfacer	6 : 1 : 1
As a Wet on Wet	6 : 1 : 1.5

With MS Hardener -

As Spray Filler	4 : 1 : 0 - 0.5
As Primer Surfacer	4 : 1 : 0.8

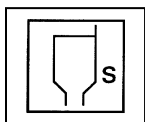


Pot Life at 20°C with HS hardener	30 - 40 minutes as Spray filler, 60 minutes as Primer Surfacer
Pot Life at 20°C with MS hardener	30 - 60 minutes as Spray filler, 75 minutes as Primer Surfacer

Hardener / Thinner Selection

Up to 18°C	D8208 HS Fast hardener or D803 MS Fast Hardener D808 Fast thinner
18 - 25°C	D897 HS Hardener or D841 MS Medium Hardener D807 Thinner - or D866 Primer Thinner .
Over 25°C	D897 HS Hardener or D861 MS Slow Hardener D812 Slow thinner

For exceptional conditions of Temperature and humidity (above 35°C or 70% RH) the use of D869 is recommended.



Application viscosities

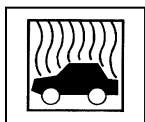
HS Hardener	40 - 85 seconds DIN4 - Spray Filler, 25 - 35 seconds DIN4 - Primer Surfacer,
MS Hardener	25 - 60 seconds DIN4 - Spray Filler, 20 - 30 seconds DIN4 - Primer Surfacer,



Spraygun Sizes	2.0 - 2.2 mm fluid tip - Spray Filler 1.6 - 1.8 mm fluid tip - Primer Surfacer
----------------	---



Number of Coats	Spray Filler 3 maximum Primer Surfacer 2 - 3
-----------------	---



Drying Times

Dust Free -	10 minutes
Through dry at 20°C	3 - 4 hours as Spray Filler, 2 - 3 hours as Surfacer

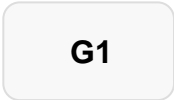


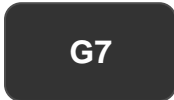
Dry Film Builds	approx. 100-200 microns as Filler, approx. 80 - 140 microns as Surfacer
-----------------	--



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	G7 D8019
			
<p><u>Use</u> <u>under:</u> Whites Light Greys Light Yellows Light Greens Light blues</p>	<p><u>Use</u> <u>under:</u> Medium greys Yellows</p>	<p><u>Use</u> <u>under:</u> Dark greys Dark Yellows Greens Blues Light and medium reds</p>	<p><u>Use</u> <u>under:</u> Blacks Dark greens Dark blues Dark reds</p>

After selecting the correct GreyMatic shade for the topcoat colour, the primer shades are made by reference to the chart above. GreyMatic 1, 5 and 7 are available straight from the can. GreyMatic 3 is a blend of D8018/D8024 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: http://www.ppg.com/PPG_MSDS

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

