



GLOBAL REFINISH
SYSTEM



May 2006

Product Information

2K GREYMATIC UHS PRIMA

Fast Normal Solids System

*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 BC, Deltron GRS DG, 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 (RLD63)** 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 bare metal primers Universel or DP40 are recommended where optimum adhesion and corrosion resistance is required.



Other bare metals should be pre-primed with either Universel or DP40.

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 DP40.



GRP or Fibre glass 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 GreyMatic :

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: **NS Hardeners**

<u>Temperature</u>	<u>NS Hardener</u>	<u>Thinner</u>
Up to 18°C	D863	D808
18-25°C	D802	D866/D807
25-35°C	D802	D812
Above 35°C	D802	D869

When using GreyMatics as a wet on wet primer, it is recommended that the same hardener or a slower option 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 Ratio for Spray Filler:

	<u>By Volume</u>
UHS Prima	3 vol
Hardener	1 vol
Thinner	
Potlife at 20°C:	50-60min
Spray viscosity	30-35 seconds DIN4/20°C

2. Mixing Ratios with Primer Surfacer:

	<u>By Volume</u>
UHS Prima	3 vol
Hardener	1 vol
Thinner	0.5 vol
Potlife at 20°C:	90 min
Spray viscosity	17-20 sec DIN4/20°C

SPRAYGUN SETUP

<i>Applied as a</i>	Spray Filler	Primer Surfacer
Fluid Tip, Gravity:	1.6-1.8 mm	1.6-1.8mm
Suction:	1.8-2.0mm	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 coat - before stoving	10 minutes Do not force dry	10 minutes 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	1 hours	1 hours
Sandable/20°C Under 100 microns Above 100 microns	4 hours 4.5 hours	3 – 4 hours 4 – 4.5 hours
Through dry/60°C	Do not Stove	25 minutes*
Through dry/ IR medium	Do not IR Dry	15 minutes

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

FILM PROPERTIES

<i>Applied as a:</i>	Spray Filler	Primer Surfacer
Dry film builds: - minimum	80µ	60µ
- maximum	200µ	140µ

APPLICATION AS A WET ON WET SURFACER

MIX RATIO

Mixing Ratios using UHS Primer:

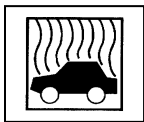
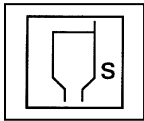
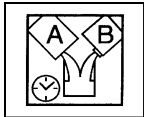
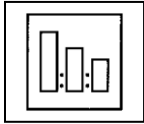
	<u>By Volume</u>
UHS Prima	3 vol
Hardener	1 vol
Thinner	1 vol
Number of coats	1-2
Spray viscosity DIN4/20°C:	14 –15 sec
Flash off between coats	10 minutes
Flash off before BC, DG or UHS topcoat	20-30 minutes
Flash off before Envirobase topcoat	30 minutes

Do not exceed 30 minute/20°C flash-off time before application of topcoat.

When using GreyMatic UHS Prima as a wet on wet surfacer, it is recommended that the same hardener or slower be used in subsequently applied direct gloss colour or clearcoat.

Consult the appropriate technical datasheets(s) to identify a suitable common hardener.

FAST GREYMATIC UHS PRIMA



Mixing by volume

With NS Hardeners:

As Spray Filler	3 : 1
As Primer Surfacer	3 : 1 : 0.5
As a Wet on Wet	3 : 1 : 1

Pot Life at 20°C with NS hardener 50 - 60 minutes as Spray filler,
90 minutes as Primer Surfacer

Hardener / Thinner Selection

Up to 18°C	D863 NS Accelerated hardener D808 Fast thinner
18 - 25°C	D802 NS Hardener D807 Thinner - or D866 Primer Thinner
Over 25°C	D802 NS Hardener D812 Slow thinner

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

Application viscosities

NS Hardener	50 - 60 seconds DIN4 - Spray Filler, 17 - 20 seconds DIN4 - Primer Surfacer, 14 - 15 seconds DIN4 - Wet on Wet
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Spraygun Sizes

1.6 - 1.8 mm fluid tip	Filler or Primer Surfacer
1.4 - 1.6 mm fluid tip	Wet on Wet

Number of Coats

Spray Filler	3 maximum,
Primer Surfacer	2 - 3
Wet on Wet	1 - 2

Drying Times

Dust Free -	10 minutes
Through dry/20°C	3 - 4.5 hours (Filler / Primer surfacer mode)
Time to topcoat	30 minutes (Wet on Wet mode)

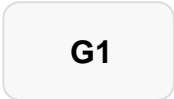


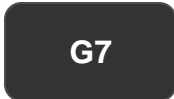
Dry Film Builds

approx. 80-200 microns as Filler,
approx. 60 - 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.

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%.

SPOT PRIMING

When spot priming in spray filler mode, it may be beneficial to add additional thinner (up to 1 part) to the last coat to achieve a smooth repair edge.

FLEXIBLE SUBSTRATES:

Mixing Ratio using UHS Prima:

	<u>By Volume</u>
UHS Prima	3 vol
Hardener	1.5 vol
D814	1 vol

Number of coats	1-2
Spray viscosity	
DIN4/20°C:	16 - 20 sec
Flash-off between coats	10 minutes

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

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