

2K Primer Surfacer/Sealer

EU-36

D839



Product Description:

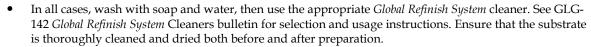
GLOBAL REFINISH SYSTEM™ D839 2K Primer Surfacer/Sealer is a gray 2K primer surfacer suitable for a wide range of day-to-day repair work in the refinish collision center. Versatile, quickly drying and easy to apply and sand, it offers excellent adhesion, film build, surface levelling and gloss holdout over a wide range of substrates.

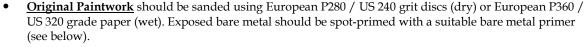
D839 may be applied directly to sound original paintwork, polyester body fillers and suitable adhesion primers. It may be directly over coated with *Global Refinish System* BC or CONCEPT® DCC Acrylic Urethane, or ENVIROBASE® High Performance.

D839 can be applied as a conventional spray filler, primer surfacer or sealer. It may be air-dried, low baked or IR cured.

Preparation of Substrate:









- <u>Electrodeposition Primer</u> must be thoroughly cleaned as outline above and then may be directly overcoated with D839 as a Wet-on-Wet sealer without abrading. If using D839 as a primer surfacer, abrade the electrodeposition primer as recommended in the "original paintwork" section.
- Aluminum, Bare Steel and Galvanized Steel must be clean, rust-free and abraded thoroughly using European P180-P280 / US 180-240 grit paper and primed with an appropriate PPG etch primer after sanding.



- <u>Polyester Body Fillers</u> should be dry sanded using European P180 / US 180 grit paper followed by European P280 / US 240 grit paper.
- Fibre Glass and SMC should be dry sanded using European P280 / US 240 grit paper.
- <u>Plastic</u> should be dry sanded with European P600 / US 400 grit paper (use a finer grit for softer plastics) and prime first with a plastic adhesion promoter. Wash off residue and dry thoroughly before recleaning with appropriate *Global Refinish System* substrate cleaner. The use of a tack rag is recommended.

Required Products

Hardener		Thinner
D802	Hardener	D870 Fast Thinner - up to 65°F (18°C)
D884	High Solids Hardener	D871 Medium Thinner 65-77°F (18-25°C)
D897	High Solids Hardener	D872 Slow Thinner 77-95°F (25-35°C)
		D873 Very Slow Thinner 95°F (35°C) and over

D839

Mix Ratio:

Spray Filler

Optimum Film Build

D839: 4 vols. D802: 1 vol.



Optimum Drying Speed

D839: 4 vols.
D802: 1 vol.
D Series Thinner: ½ vol.



D839: 4 vols.
D894/DMC Tinter**: 2 vols.
D884/D897: 1 vol.
D Series Thinner: 2 vol.

*SL87 Extender may be added up to 1 oz. per RTS quart if desired.

**The DMC Tint must have a package VOC of 4.60 or less.

Note: Spray Filler and Primer Surfacer applications <u>must</u> be sanded.

Pot Life:

15 minutes at 68°F (20°C) for Spray Filler 1 hour at 68°F (20°C) for Primer Surfacer

1 hour at 68°F (20°C) for Wet-on-Wet Sealer

Additives:

DMC Tinter: In the 4:1 or 4:1:1/2 option, D839 may be tinted by addition of up to 10% by

volume of DMC tinter or mixed Concept DCC Colour PRIOR to addition

of D802 Hardener and the thinner.

D814 Plasticiser: 10% by volume to RTS D839 (D839 as a Primer Surfacer or as a Wet-

on-Wet Sealer may be plasticised)

SL814 Universal Flexibilizer: 10% by volume to RTS D839 (D839 as a Primer Surfacer or as a Wet-

on-Wet Sealer may be plasticised)

Spraygun Setup:

Fluid Tip: Spray Filler 1.6-1.8 mm or equivalent Primer Surfacer 1.6-1.8 mm or equivalent

Wet-on-Wet Sealer 1.4-1.6 mm or equivalent

Spray Pressure:

HVLP: 0.7 bar / 10 psi at the air cap

Compliant: 29-40 psi at the gun

Note: For best overall results, refer to spraygun manufacturer's recommendations for inlet air pressures.

Number of Coats:

Apply: Spray Filler up to 4 wet coats
Primer Surfacer 2 to 3 wet coats
Wet-on-Wet Sealer 1 medium coat

Apply: Primer Surfacer Up to 4 wet coats Primer Surfacer 2-3 wet coats Wet-on-Wet Sealer 1 medium wet coat

Total dry film build per coat: $2.0 \text{ mils} / 50 \,\mu$ $1.5 \text{ mils} / 37 \,\mu$ $1.0 \text{ mils} / 25 \,\mu$

D839

Drying Times



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•	Spray Filler	Primer Surfacer	Wet-on-Wet Sealer
Between Coats	5-10 minutes	5-10 minutes	N/A
Before Stoving	N/A	10 minutes	N/A

Before Topcoat N/A N/A 15 minutes minimum 72 hours maximum*

*After 72 hours Wet-on-Wet Sealer must be scuffed.



Dust Free:

Flash Off

68°F (20°C) 15 minutes 15 minutes



Dry to Sand:68°F (20°C)4 hours2 hoursSand after 2 hours140°F (60°C)Do not force dry30 minutes**30 minutes**

Tape Time:

68°F (20°C) N/A N/A 3 hours 140°F (60°C) N/A N/A 45 minutes**



IR:

Medium wave: Do not force dry 20 minutes 5-10 minutes Short wave: Do not force dry 10 minutes 3-5 minutes

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

Primer Surfacer

Wet-on-Wet Sealer

Overcoat/R	ecoat:
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Dry to Topcoat68°F (20°C)4 hours (after sanding)2 hours (after sanding)15 minutes140°F (60°C)N/A15 minutes45 minutes

Spray Filler



Grade Wet: European P600 / US 400 followed by European P1200 / US600 Grade Dry: European P360 / US 320 followed by European P1000 / US500



Overcoat with: Global Refinish System, Concept DCC Acrylic Urethane or ENVIROBASE®

High Performance topcoats.

Technical Data

	Spray Filler	Primer Surfacer	Wet-on-Wet Sealer
Minimum after sanding:	$2.0 \text{ mils} / 50 \mu$	$2.0 \text{ mils} / 50 \mu$	$1.0 \text{ mils} / 25 \mu$
Maximum after sanding:	$10.0 \text{ mils} / 250 \mu$	6.0 mils / 150 μ	$1.4 \text{ mils} / 37 \mu$
Film build per wet coat:	5.0 mils / 125 μ	4.0 mils / 100 μ	3.0 mils / 75 μ
Film build per dry coat:	$2.0 \text{ mils} / 50 \mu$	$1.5 \text{ mils} / 37 \mu$	$2.0 \text{ mils} / 25 \mu$

OneChoice Etch Primers

D839

Technical Data:

RTS Combinations	D839 : D802	D839 : D802 : D872	D839 : DMC: D897 : D872
Volume Ratio	4:1	4:1: 1/2	4:2:1:2
VOC Actual g/L	516	544	550
VOC Actual lbs./ US gal	4.30	4.54	4.60
VOC Regulatory (less water less exempts) g/L	516	544	550
VOC Regulatory (less water less exempts) lbs./ US gal	4.30	4.54	4.60
Solids vol. %	40.9	37.2	35.9
Solids wt. %	64.1	60.6	54.7
Theoretical Coverage - Sq. Ft. / US gal.	109	149	480

Theoretical coverage in sq. ft./US gal RTS giving 6.0 mils (150 μ) dry film thickness for spray filler, 4 mils (100 μ) dry film thickness for Primer Surfacer and 1.2 mils (30 μ) for primer sealer.

Product

Compatibility:

D839 is compatible as a spray filler and primer surfacer over:

D820 Plastic Adhesion Promoter ONECHOICE® Plastic Adhesion OneChoice Etch Primers

Promoters

D839 as a spray filler or primer surfacer may be sealed with:

Global Refinish System Sealers OneChoice Sealers

D839 is compatible as a sealer over:

Global Refinish System OneChoice Plastic Adhesion

SurfacersD820 Plastic Adhesion Promoters

Promoter OneChoice Surfacers

D822 Corrosion Resistant Primer

D839 may be topcoated with:

Global Refinish System BC Basecoat Colour Concept DCC Acrylic Urethane Envirobase High Performance

Performance Guidelines

The use of HVLP spray equipment can give an increase in transfer efficiency of about 10% depending on the make and model of equipment used. When **Spot Priming** with D839 as a Primer Surfacer, adopt the following procedure:

- Ensure that the surface is thoroughly sanded to the panels' edge or to a distance several centimeters beyond the damaged area, whichever is smaller.
- After applying the material and allowing it to dry as normal, be careful to thoroughly level the repair edge when sanding.
- Do not attempt spot repair on original or refinish thermoplastic applications, lacquer or 1K finishes.
- D839 and its ancillaries are sensitive to moisture, so all equipment must be perfectly dry.
- Partially used cans of hardener must be carefully closed.

D839

Health and Safety:

See Safety Data Sheet and Labels for additional safety information and handling instructions.



The contents of this package may have to be blended with other components before the product can be used. Before opening
the packages, be sure you understand the warning messages on the labels and SDS's of all the components, since the mixture
will have the hazards of all of its parts.



Improper handling and use, for example, poor spray technique, inadequate engineering controls and/or lack of proper Personal Protective Equipment (PPE), may result in hazardous conditions or injury.
 Follow spray equipment manufacturer's instructions to prevent personal injury or fire.





- Follow company policy, product SDS and respirator manufacturer's recommendations for selection and proper use of
 respiratory protection. Be sure employees are adequately trained on the safe use of respirators per company and regulatory
 requirements.
- Wear appropriate PPE such as eye and skin protection. In the event of injury, see first aid procedures on SDS.
- Always observe all applicable precautions and follow good safety and hygiene practices.

See Safety Data Sheet and Labels for additional safety information and handling instructions.

Important: The contents of this package must be blended with other components before the product can be used. Before opening the packages, be sure you understand the warning messages on the labels of all components since the mixture will have the hazards of all its parts. Improper spray technique may result in a hazardous condition. Follow spray equipment manufacturer's instructions to prevent personal injury or fire. Follow directions for respirator use. Wear eye and skin protection. Observe all applicable precautions.

EMERGENCY MEDICAL OR SPILL CONTROL INFORMATION (412) 434-4515; IN CANADA (514) 645-1320

Materials described are designed for application by professional, trained personnel using proper equipment and are not intended for sale to the public. Products mentioned may be hazardous and should only be used according to direction, while observing precautions and warning statements listed on label. Statements and methods described are based upon the best information and practices known to PPG Industries. Procedures for applications mentioned are suggestions only and are not to be construed as representations or warranties as to performance, results, or fitness for any intended use, nor does PPG Industries warrant freedom from patent infringement in the use of any formula or process set forth herein.

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2K Primer Surfacer/Sealer

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Spray Filler (Optimum Film Build)

D839 2K Primer Surfacer/Sealer: 4 vols. D802 Hardener: 1 vol.

Primer Surfacer* (Optimum Drying Speed)

D839 2K Primer Surfacer/Sealer: 4 vols. D802 Hardener: 1 vol. D-Thinner: ½ vol.

Wet-on-Wet Sealer

D839 2K Primer Surfacer/Sealer: 4 vols. D894 / DMC Tinter: 2 vol. D884 /D897 Hardener: 1 vols. D-Thinner: 2 vols.

*SL87 Extender may be added up to 1 oz. per RTS quart if desired. **The DMC Tint must have a package VOC of 4.60 or less.

Hardener Thinner

D802 Hardener D870 Fast Thinner - up to 65°F (18°C) High Solids Hardener D884 D871 Medium Thinner 65-77°F (18-25°C) D897 High Solids Hardener D872 Slow Thinner 77-95°F (25-35°C)

D873 Very Slow Thinner 95°F (35°C) and over

Additives:

DMC Tinter: In the 4:1 or 4:1:1/2 option, D839 may be tinted by addition of up to 10% by volume of DMC tinter or

mixed Concept DCC Colour PRIOR to addition of D802 Hardener and the thinner.

D814 Plasticiser: 10% by volume to RTS D839 (D839 as a Primer Surfacer or as a Wet-on-Wet Sealer may be plasticised) SL814 Flexibilizer: 10% by volume to RTS D839 (D839 as a Primer Surfacer or as a Wet-on-Wet Sealer may be flexibilized)

Pot Life:



Fluid Tip:

15 minutes at 68F (20°C) for Spray Filler

1 hour at 68°F (20°C) for Primer Surfacer 1 hour at 68°F (20°C) for Wet-on-Wet Sealer

Gun Setup:



Spray Filler **Primer Surfacer** Wet-on-Wet Sealer

1.6-1.8 mm or equivalent 1.6-1.8 mm or equivalent 1.4-1.6 mm or equivalent HVLP: 0.7 bar / 10 psi at the air cap

Compliant: 29-40 psi at the gun

Application:



2 to 3 wet coats 1 medium coat Apply: up to 4 wet coats Total dry film build per coat: $2.0 \text{ mils} / 50 \,\mu$ $1.5 \text{ mils} / 37 \,\mu$ 1.0 mils / 25 µ

Dry Times:



Between Coats 5-10 minutes 5-10 minutes N/A Before Stoving N/A 10 minutes N/A

Before Topcoat 15 minutes minimum N/A N/A 72 hours maximum

Dry to Sand:



68°F (20°C) 4 hours 2 hours Sand after 2 hours 140°F (60°C) Do not force dry 30 minutes** 30 minutes**

Tape Time:



68°F (20°C) N/A N/A 3 hours 140°F (60°C) 45 minutes** N/A N/A



Medium wave: Do not force dry 20 minutes 5-10 minutes Short wave: Do not force dry 10 minutes 3-5 minutes

Dry to Topcoat

68°F (20°C) 4 hours (after sanding) 2 hours (after sanding) 15 minutes 140°F (60°C) N/A 15 minutes 45 minutes



US 400 / P600 grit Grade Wet: Grade Dry Machine: US 320 / P500 grit

^{**}Bake times quoted are for metal temperature. Additional time should be allowed in the force drying schedule to allow metal to reach recommended