

Product Information

2K Primer Surfacer/Sealer D839

Product Description

D839 is a grey 2K-primer surfacer suitable for a wide range of day-to-day repair work in the refinish body shop. Versatile, quick 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 overcoated with Global BC, Global DG or Envirobase.

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

substrate is thoroughly cleaned and dried both before and after application work. <u>Original Paintwork</u> should be sanded using European P280 / U.S. 240 grit discs (dry) or European P360 / U.S. 320 grade paper (wet). Exposed bare metal should be spot-primed with a suitable bare

In all cases, wash all surfaces to be painted with soap and water, then apply the appropriate Global cleaner. See GLG-142 Global Cleaners bulletin for selection and usage instructions. Ensure that the



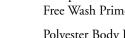
<u>Electrodeposition Primer</u> must be thoroughly cleaned as outlined above and may then be directly overcoated with D839 as a wet-on-wet sealer without abrading. If using D839 as a spray filler or primer surfacer, abrade the electrodeposition primer as recommended in the "original paintwork" section.

<u>Aluminum, Bare Steel and Galvanized Steel</u> must be clean, rust-free and abraded thoroughly using European P180 / U.S. 180 to European P280 / U.S. 240 grit paper and primed with D831 Chromate-Free Wash Primer after sanding.

<u>Polyester Body Fillers</u> should be dry sanded with European P180 / U.S. 180 followed by European P280 / U.S. 240 grit paper.

Fibre Glass and SMC should be dry sanded using European P280 / U.S. 240 grit paper.

<u>Plastic</u> should be dry sanded with European P600 / U.S. 400 (use a finer grit for softer plastics) and prime first with D820 Plastic Adhesion Promoter. Wash off residue and dry thoroughly before recleaning with appropriate Global substrate cleaner. The use of a tack rag is recommended.



metal primer (see below).

APPLICATION GUIDE

Mix Ratio

Mix Rat When Mixe				
$[\square]$	Spray Filler <u>Optimum Film Build</u> D839: 4 Vols D802: 1 Vol Thinner: —	Primer Surfacer* <u>Optimum Drying Spec</u> D839: 4 Vols D802: 1 Vol Thinner: ¹ / ₂ Vol	_	<u>Wet-On-Wet Sealer</u> D839: 4 Vols 894/DG Tinter** : 2 Vols D897 or D884: 1 Vol
	* D885 may be added up to ** The DG Tint must have a	□] 1 oz. per ready-to-spray qu		Thinner: 2 Vols
	Note: Spray filler and Primer	· Surfacer applications <u>must</u>	be sanded.	
	Potlife @ 20°C / 68°F When Sprayed as a Primer Surfacer Wet-On-Wet Sealer	1 Hour 1 Hour		
Thinner	:			
		Appropriate Temperature R	Range:	
	D870:	Up to 18°C / 65°F	<u>ег</u>	
	D871: D872:	18° – 25°C / 65° – 77° 25° – 35°C / 77° – 95°		
	D872: D873:	25° – 35°C / 7/7° – 95° Over 35°C / 95°F	1.	
	Note: D8700 Retarder may l		mperatures over 35°	C / 95°F. The retarder can be
	mixed up to 10% with the ap		-	
Additive	es:			
	D839 can be tinted:		¹ / ₂ option, D839 m	
				Global DG tinter or n of D802 Hardener
		and the thinner.	r PRIOR to additio	n of D802 Hardener
AB	D839 as a primer surfacer	and the timiler.		
	or wet-on-wet sealer only,	D839 : Ready to	o spray mix	
	can be flexed:	D814 : 10% by		life is 1 hour @ 20°C / 68°F
Spraygu	un set up:			
	When Sprayed as a			
╞ ╋ ┣	Spray Filler	1.6 – 1.8 mm or e	1	
	Primer Surfacer	1.6 – 1.8 mm or e	-	
	Wet-On-Wet Sealer	1.4 – 1.6 mm or e	equivalent	
Spray p	ressure:			
	HVLP at air cap	0.7 bar / 10 PSI		
	Conventional at spray gun	3 bar / 45 PSI		
Number	r of coats:			
	When Sprayed as a		<u> </u>	
	Spray Filler	up to a maximum	n of 4 wet coats	
	D / 2 2	2 to 3 wet coats		
	Primer Surfacer			
7	Primer Surfacer Wet-On-Wet Sealer	1 medium coat	D 4	
*	Wet-On-Wet Sealer	1 medium coat Spray Filler	Primer Surfacer	Wet-On-Wet Sealer
1	Ŭ	1 medium coat	Primer Surfacer 100μ / 4.0 mils 37μ / 1.5 mils	<u>Wet-On-Wet Sealer</u> 75μ / 3.0 mils 25μ / 1.0 mils

APPLICATION GUIDE

Flash off at 20°C / 68°F:

		Spray Filler	Primer Surfacer	Wet-On-Wet Sealer
•	Between coats	5 - 10 minutes	5 – 10 minutes	N/A
t∕∣	Before stoving	N/A	10 minutes	N/A
↑ /	Before Topcoat	N/A	N/A	15 minutes minimum, 72 hours maximum*

Spray Filler

* After 72 hrs Wet-On-Wet Sealer must be scuffed.

Wet-On-Wet Sealer: Over D831, topcoat must be applied within 15 - 45 minutes @ 20°C / 68°F or baked 45 minutes @ 60°C / 140°F or after overnight dry.

Primer Surfacer

Wet-On-Wet Sealer

Drying times:



<i>Dust-free</i> 20°C / 68°F	15 minutes	15 minutes	15 minutes
Dry to handle	-	-	-
20°C / 68°F Dry to Sand	60 minutes	60 minutes	80 minutes
20°C / 68°F	4 hours	2 hours	Sand after 2 hours air dry
60°C / 140°F	Do not force dry	30 minutes**	30 minutes**
Tape Time			
20°C / 68°F	N/A	N/A	3 hours
60°C / 140°F	N/A	N/A	45 minutes**
IR (Infrared)			
Medium Wave	Do Not Force Dry	20 minutes	5 – 10 minutes
Short Wave	Do Not Force Dry	10 minutes	3-5 minutes
** Stoving times are for quotea force-drying schedule to allo	l metal temperature. Addit	ional time should	be allowed in the

Overcoat /Recoat:

		Spray Filler	Primer Surfacer	Wet-On-Wet Sealer
	<i>Dry to Topcoat</i> 20°C / 68°F 60°C / 140°F	4 hours (after sanding) N/A	2 hours (after sanding) 15 minutes	15 minutes 45 minutes
>	Grade wet	European P600 / U.	S. 400 followed by Eu	11200 / U.S. 600
	Grade dry	European P360 / U.S. 320 followed by European P1000 / U.S. 500		
	Overcoat with	Envirobase or any G	lobal Topcoat	

Technical Data:

	Spray Filler	Primer Surfacer	Wet-On-Wet Sealer
Total dry film build:			
Minimum after sanding	50µ / 2.0 mils	50µ / 2.0 mils	25µ / 1.0 mil
Maximum after sanding	250µ / 10. mils	150µ / 6.0 mils	35µ / 1.4 mils
Film build per wet coat	125µ / 5.0 mils	100µ / 4.0 mils	75µ / 3.0 mils
Dried film build per coat	50µ / 2.0. mils	37µ / 1.5. mils	25µ / 1.0. mil
% solids by volume RTS	40.9	37.1	35.9
Theoretical coverage	Approx.	Approx.	Approx.
	109 sq.ft. / US Gal	149 sq.ft. / US Gal	480 sq.ft. / US Gal

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

(D839)496 gms per litre / 4.14 lbs. per US gal.(D839:D802, 4:1)516 gms per litre / 4.30 lbs. per US gal.(D839:D802:D872, 4:1:1/2)546 gms per litre / 4.56 lbs. per US gal.(D839:DG:D897:D872, 4:2:1:2)551 gms per litre / 4.60 lbs. per US gal.

Product Compatibility:

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

D820 Plastic Adhesion Promoter D831 Chromate Free Wash Primer

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

	teel may be beared within
D822 Corrosion Resistant Primer	D848 Waterborne 2K Pr
(as a sealer)	Surfacer (as a sealer)
D825 2K Tintable Surfacer	D859 Low VOC Sealer
(as a sealer)	D891 Sealer
D839 2K Primer Surfacer/Sealer	
(as a sealer)	
D839 is compatible as a sealer over:	
D820 Plastic Adhesion Promoter	D848 Waterborne 2K
D822 Corrosion Resistant Primer*	Primer Surfacer Sealer
D824 Prime-Fill Low VOC	D8002 UHS Surfacer*
2K Surfacer*	D860 Low VOC Primer
D825 2K Tintable Surfacer*	D831 Chromate Free Wa

D825 2K Lintable Surface D839 2K Primer Surfacer / Sealer* 2K Sealer* cer* rimer Surfacer* ree Wash Primer**

2K Primer ealer)

DTM Uniprime® Direct to Metal Primer Surfacer*

SX/SXA 1050 Plastic Adhesion Promoter (Specialty Performance Products)

D8006 UHS Sealer D8040 Series DTM (as a sealer) D8070 series 2K Chromatic Sealers SX1056 Flexible 2K Sealer (Specialty Performance Products)

SX/SXA 1050 Plastic Adhesion Promoter (Specialty Performance Products) SX1057 Flexible 2K Surfacer* (Specialty Performance Products)

SX1060 Brushable 2K Primer Surfacer* (Specialty Performance Products)

*Multiple coat surfacer applications only. Must be fully cured and sanded. **Over D831, sealer applications must be topcoated wet on wet within 15-45 minutes at 68°F or allowed to cure overnight or baked 45 minutes at 140°F.

D839 may be topcoated with:

Global DG Direct Gloss Colour Global BC Basecoat Colour DGLV Direct Gloss Low VOC Colour Envirobase

Performance Guidelines:

The use of HVLP spray equipment can give an increase in transfer efficiency of around 10% depending upon 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 the 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. Also... D839 and its ancillaries are sensitive to moisture, so all equipment must be perfectly dry. Partially used cans of hardener must be carefully closed.

Health and Safety:

See Material 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 MSDS's of all the components, since the mixture will have the hazards of all 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.
- Provide adequate ventilation for health and fire hazard control.



- · Follow company policy, product MSDS 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 MSDS.
- · Always observe all applicable precautions and follow good safety and hygiene practices.

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 general public. Products mentioned may be hazardous and should only be used according to directions, 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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D839