

## Chromate-Free Wash Primer

EU-10

# D831



GLOBAL REFINISH  
SYSTEM™

### Product Description:

GLOBAL REFINISH SYSTEM™ D831 is a beige two-component pigmented etch primer. The primer base is chromate-free and is mixed with a choice of acid-based reactive thinners. It is universal in application and promotes adhesion over a wide range of substrates.

D831 may be overcoated with all *Global Refinish System* 2K primers.

### Preparation of Substrate:



- Wash all surfaces to be painted with soap and water, then apply with appropriate *Global Refinish System* cleaner. See EU-134 *Global Refinish System* Cleaners bulletin for selection and usage instructions. Ensure that the substrate is thoroughly cleaned and dried both before and after application work.
- Aluminum, Bare Steel, and Galvanized Steel must be clean, rust-free and abraded thoroughly using European P180-P280 / US 180-240 grit paper (wet).
- D831 is not recommended for use on Fiberglass. In cases where D831 is being applied to bare metal that is adjacent to fiberglass, a slight overlap is acceptable only where the fiberglass substrate has been properly scuffed and cleaned.
- Do not apply D831 directly over or under body filler. Slight overlaps of D831 onto body filler or painted surfaces is acceptable, but should be kept to a minimum.
- No media blasted steel.

### Required Products

#### Thinner

D832 Reactive Thinner

## D831

**Mix Ratios:**

D831 Chromate-Free Wash Primer: 1 vols.  
D832 Reactive Thinner\*: 1 vol.

\*For extreme temperature conditions 95°F [35°C] and above an additional 10% of D873 Very Slow Thinner may be added to the ready-to-spray product. Two coats may be required for proper film build if additional thinner is added.

**Pot Life:**

24 hour at 20°C (68°F)

**Additives:**

None

**Spraygun Setup:**

**Fluid Tip:** 1.3-1.6 mm or equivalent  
**Spray Viscosity:** 20 seconds #2 ZAHN at 68°F (20°C)

**Spray Pressure:**

**HVLP:** 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:** 1-2 wet coats

**Total wet film build per coat:** 2.0-2.5 mils

**Total dry film build per coat:** 0.5-0.6 mils

**Drying Times:**

**Between Coats:** 5 minutes  
68°F (20°C)

**Before Topcoating:** 20 minutes for 1 coat  
30 minutes for 2 coats



**Dust Free:** 5 minutes  
68°F (20°C)

**Dry to Handle:** 20 minutes  
68°F (20°C)

**Tape Time:** 15-30 minutes  
68°F (20°C)

**Air Dry to Sand:** 30-45 minutes  
68°F (20°C)



**Force Dry\*:** 5 minutes purge time before stoving  
140°F (60°C) 20 minutes

\*Force dry times are quoted for metal temperature. Additional time should be allowed in the force drying schedule to allow metal to reach recommended temperature.

## D831

## Overcoat/Recoat



**Overcoat/Recoat Time:** 15-30 minutes minimum, 24 hours maximum.  
After 24 hours, lightly scuff D831. *Always maintain a film build of 0.5 mil at a minimum.* Recoat with additional D831 if necessary.



**Grade Wet:** European P800 / US 500  
**Grade Dry:** European P600 / US 400



Application of D831 must be followed by primer sealer or surfacer before topcoating. Overcoat with any 2K surfacer or sealer before topcoat application. *Global Refinish System BC, CONCEPT® DCC, or ENVIROBASE® High Performance cannot* be directly applied to D831.

## Technical Data:

**Total dry film build:**  
Minimum: 0.5 mils  
Maximum: 1.0 mils  
Recommended film build per wet coat: 2.0-2.5 mils  
Recommended dried film build per coat: 0.5-0.6 mils

RTS Combinations	D831 : D832
Volume Ratio	1 : 1
Applicable Use Category	Pretreatment Coating
VOC Regulatory (less water less exempts) g/L	723
VOC Regulatory (less water less exempts) lbs./ US gal	6.04
Solids vol. %	11.6%
Sq. Ft. Coverage / US gal. 0.6 mil at 100% transfer efficiency	310

## Health and Safety:



- 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.
- Provide adequate ventilation for health and fire hazard control.
- 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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Product Information Effective 11/15

## Chromate-Free Wash Primer

**Mix:****D831****1****:****D832 Thinner****1****Thinner**

D832 Reactive Thinner

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**Additives:**

None

**Pot Life:**

24 hours at 68°F (20°C)

**Air Pressure:***HVLP:*

10 psi at the air cap

*Compliant:*

29 - 40 psi at the gun

*Fluid Tip:*

1.3-1.6 mm or equivalent

*Viscosity:*

20 seconds #2 ZAHN at 68°F (20°C)

**Application:***Apply:*

1-2 wet coats

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20 minutes at 140°F (60°C)

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