



June 2014

# Product Information



## UNIVERSEL D831

*Wash Primer D831  
Reactive Thinner D832  
Slow Reactive Thinner D833  
Primer Thinner D866*

### PRODUCT DESCRIPTION

Universel is a beige, two component, pigmented chromate-free etch.

It is designed to give excellent corrosion resistance and adhesion when used on new panels and to promote the adhesion of subsequent paint films.

This product must always be catalysed with its own Reactive Thinners.

### PREPARATION OF SUBSTRATE



#### **Substrate**

Bare steel  
Galvanised steel  
Zintec  
Aluminium and alloys  
Electropaint  
Aged painted surfaces  
GRP , Fiber-Glass  
Polyester filler

#### **Preparation**

P80 – 120 (dry)  
P400 (dry)  
Scotchbrite  
P280-320(dry)  
P360 (dry)/P800 (wet)  
P280 - 320 (dry)/P400 - 500 (wet)  
P320 (dry)  
P80 - P120 (dry)



Degrease all surfaces to be painted with appropriate PPG substrate cleaner before and after sanding operation.

See Technical Data Sheet **DELTRON**® Cleaners **RLD63V**.

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## MIXING RATIOS

### 1. Mixing Ratios with Adhesion Promoter:

	<u>By Volume</u> <u>Normal use</u>	OR	<u>By Volume for</u> <u>small rub through areas**</u>
D831	1 vol		D831 1 vol
D832*	1 vol		D832* 1 vol
			D866 0.2 vols

\*For exceptional conditions of temperature and humidity (> 35°C / >70%) and for large areas use Slow Reactive Thinner D833

\*\* This option may be used where a very smooth film is required on small rub through areas.

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## MIXED PRODUCT DETAILS

Pot Life at 20°C: Only freshly mixed material will give best performance.  
To obtain maximum adhesion and corrosion resistance, mixed material should be used within the day.

Spray viscosity at 20°C: Adhesion Promoter 16 seconds DIN4 (before any D866 addition)

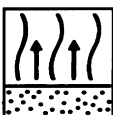
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## APPLICATION AND FLASH OFF



Spraygun set-up: 1.4 - 1.6 mm

Number of coats: 2 - 3 single coats (3 coats maximum, 2 coats minimum)  
to give a film thickness of 15 - 25 microns.



Flash-off between coats at 20°C: 5 - 10 minutes

## DRYING TIMES



- Dust free
- Overcoat / Re-coat time (at 20°C)

### Adhesion Promoter

5 – 10 minutes  
20 - 30 mins, depending on drying conditions and film thickness

Total dry film build: 15 - 25 µm

Overcoat with: PPG 2K primers  
Theoretical coverage: Assuming 100% transfer efficiency and dry film thickness as indicated: 8m<sup>2</sup>/l



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## PERFORMANCE AND LIMITATIONS



Universel is an adhesion promoter; do not use it as an isolator.

Low builds, excessive thicknesses or approximate mixing ratio will reduce performance of the product.

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## EQUIPMENT CLEANING

After use, clean all equipment thoroughly with cleaning solvent or thinner.

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## VOC INFORMATION

The EU limit value for this product (product category: IIB.c) in ready to use form is max. 780g/litre of VOC. The VOC content of this product in ready to use form is max. 780g/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.

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## 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:

[www.ppgrefinish.com](http://www.ppgrefinish.com)

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