



**AUTO REFINISH**

GLOBAL  
REFINISH  
SYSTEM



# Product Information

## D831

*D831- Universel*

*Chromate-free Wash Primer D831  
Reactive Thinner D832*

### Product Description

**Universel is a beige two-component pigmented etch primer.**

The primer base is chromate-free and is mixed with an acid-based Reactive Thinner.

It is universal in application and promotes adhesion over a wide range of substrates, but it should not be used as an isolator itself or over an isolator.

Universel may be used in a wet-on-wet system if required and may be overcoated with most types of PPG 2K Primers.

Universel is particularly recommended for use on bare metal substrates including, aluminium, galvanised steel.

This product must always be catalysed with its own Reactive Thinners D832.

### PREPARATION OF SUBSTRATE

#### **Substrate**



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

#### **Preparation**

P80 – 120 (dry)  
Red Mirlon Scoring pad / P400 (dry)  
Red Mirlon Scoring pad  
P180-240(dry)  
P320-400 (dry)/P600-P800 (wet)  
P320 - 400 (dry)/P600 (wet)  
P240-320 (dry)  
P120-P180 (dry)



#### **Cleaning**

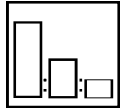
Before and after any sanding operation, the substrate must be thoroughly degreased using D845 or D837. Aluminium should be cleaned using SWX250 prior to coating.

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## Application Guide

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### Mixing Ratio

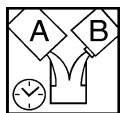


D831	1 vol
D832	1 vol

- RFU mixing available on Paint Manager

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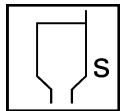
### Potlife



24 hours at 20°C  
Performance of Universel will reduce 24 hours after it has been mixed

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### Spray Viscosity



16 secs DIN4 at 20°C

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### Spraygun Setup



1.3 – 1.8 mm

### Spray Pressure

2-3 bar / 30-45 PSI

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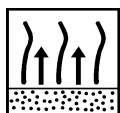
### Number of Coats



2 coats minimum  
3 coats maximum

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### Flash Off at 20°C



<i>Between coats</i>	5 minutes
<i>Before Primer/Topcoat</i>	15 minutes

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## Application Guide

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### Drying Times



Dust-free

5 minutes

Dry to sand (20°C)

20–30 minutes

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### Technical Data

#### Total Dry Film Build

Minimum

15 µm

Maximum

25 µm

Theoretical Coverage\*

Over 8 m<sup>2</sup>/L

\* Theoretical coverage in m<sup>2</sup>/L ready-to-spray, giving 20 µm dry film thickness.

#### Flash Points

D831, D832, D845, D837, D846

See PPG MSDS

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### Sanding

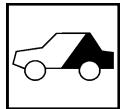


Grade dry

P500

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### Overcoat/Recoat Time



20–30 minutes minimum

Overcoat within 2 hours.

#### Overcoat with

Any PPG 2K primer with the exception of DP4000.  
**DO NOT** overcoat with DP4000.

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## **Performance Guidelines**

The performance of D831 Universel will progressively reduce after it has been mixed for 24 hours.

To ensure optimum adhesion, avoid the use of light dust coats.

**Do not apply** Polyester body filler over D831 Universel etch primer. These products are incompatible and severe blistering and loss of paint adhesion may occur.

Low builds; excessive thicknesses or an inaccurate mixing ratio will reduce performance of the product.

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

Although GRS topcoats, under some circumstances, may be applied directly over D831 Universel, this system is not covered by PPG's Lifetime Warranty. It is recommended that D831 Universel is sealed before topcoating with a 2K acrylic urethane primer or sealer such as D839 Prima or D847 Scansealer.

Envirobase High Performance should not be used directly over D831 Universel.

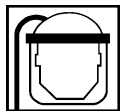
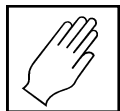
## **EQUIPMENT CLEANING**

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



### **Health and Safety**

**Please refer to Material Safety Data Sheets for full Health and Safety details.**



- Goggles must be worn when mixing and using to prevent accidental splashing into the eye. If contact occurs with eyes give prolonged irrigation with water and get medical attention immediately.
- Good ventilation and extraction must be provided in the working environment.
- Wear suitable protective equipment to prevent skin contact with this material.
- When spraying this product the operator (and persons in vicinity) must wear suitable air-fed breathing apparatus.
- Do not smoke whilst using this material.

This product is for professional use only.

The information given in this sheet is for guidance only. Any person using the product without first making further inquiries as to the suitability of the product for the intended purpose does so at his own risk and we can accept no liability for the performance of the product or for any loss or damage (other than death or personal injury resulting from our negligence) arising out of such use. The information contained in this sheet is liable to modification from time to time in the light of experience and our policy of continuous product development.

Drying times quoted are average times at 20°C/68°F. Film thickness, humidity and shop temperature can all affect drying times.



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