



GLOBAL REFINISH
SYSTEM



June 2014

Product Information



UNIVERSEL D831

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

PRODUCT DESCRIPTION

Universe 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**.

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.

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.

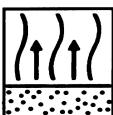
Spray viscosity at 20°C: Adhesion Promoter 16 seconds DIN4 (before any D866 addition)

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 | Adhesion Promoter 5 – 10 minutes |
| - Overcoat / Re-coat time (at 20°C) | 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 ² /l |

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.

EQUIPMENT CLEANING

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

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.

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:

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