

## F580-2080 epoxy primer

### Description

F580-2080 is a two-pack, ambient curing, epoxy primer developed for the internal and external protection of aircraft and for resistance to microbiological attack in fuel tanks. The base component contains strontium chromate for long term corrosion inhibition. For details of schemes incorporating F580-2080 please consult the relevant Scheme Sheets available from PRC-DeSoto International.

Fully cured F580-2080 possesses excellent fluid resistance and adhesion characteristics.

F580-2080 epoxy primer is qualified to the following OEM specifications:

DTD 5567A  
 DTD 5580A  
 DTD 5599A  
 TN A.007.10012  
 S27-7004  
 TH33.0141

For further information on product specification requirements, please contact PRC-DeSoto International.

### Application properties (typical)

(At 23°C/50%RH unless otherwise stated)

Product code numbers

Base	F580-2080
Activator	F275-160
Thinner	T 701

Flash points (Seta)

F580-2080	-7°
F275-160	16°C
T 701	23°C

Mixing ratio, by volume

Base:activator:thinner	2:1:1
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Volatile organic compound (VOC), mixed ready for use

(ASTM-D 3960)	625 g/litre
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Coverage, mixed ready for use, theoretical value, no loss

@ 15 microns film thickness	18 m <sup>2</sup> /litre
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Viscosity

BS B3	26-30 seconds
DIN 4	13-14 seconds
AFNOR 2.5	45-55 seconds
Pot life	8 hours
Dust free	2 hours
Dry to mask	4 hours
Dry to overcoat	4-8 hours
Full cure	7 days

F580-2080 is compatible with all types of spray equipment. For details on the application parameters please consult the relevant Scheme Sheets.

Colour	Yellow
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### Performance properties (typical)

When tested with F565-4010 and CA 8000 over sulpho-chromic pickle pre-treatment, F580-2080 will pass or exceed the requirements of BS X 35 as follows:

Dry adhesion

Cross hatch (ISO 2409)	Grade < 1
Cupping test, (ISO 1520)	4 mm

Water resistance

168 hours @ 40°C (ISO 1521)	
Cross hatch (ISO 2409)	Grade 1

Resistance to fluids

Tri-N-butyl phosphate	
168 hours @ 70°C (ISO 2812)	
Scratch hardness, (ISO 1518)	1000 g

Filiform corrosion resistance, creep

1000 hours (EN 3665)	2 mm
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**Note:** The application and performance property values above are typical for the material but are not intended for use in specifications or for acceptance inspection criteria because of variations in testing methods, conditions and configurations.

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A PPG Industries Company

## **F580-2080 epoxy primer**

### **Storage life**

The storage life of F580-2080 is twenty four months from date of manufacture when stored at temperatures between 5°C and 35°C in the original unopened containers. Partly used containers must be re-sealed immediately after use. Once opened, activator F275-160 must be used within two months.

### **Health precautions**

This product is safe to use and apply when recommended precautions are observed. Before using this product read and understand the Material Safety Data Sheet which provides information on health, physical and environmental hazards, handling precautions and first aid recommendations. An MSDS is available on request. Avoid overexposure. Obtain medical care in case of extreme exposure.

All recommendations, statements, and technical data contained herein are based on tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. User shall rely on his own information and tests to determine suitability of the product for the intended use and assumes all risks and liability resulting from his use of the product. Seller's and manufacturer's sole responsibility shall be to replace that portion of the product of this manufacturer which proves to be defective. Neither seller nor manufacturer shall be liable to the buyer or any third person for any injury, loss, or damage directly or indirectly resulting from use of, or inability to use, the product. Recommendations or statements other than those contained in a written agreement signed by an officer of the manufacturer shall not be binding upon the manufacturer or seller.