

Product Description

FR80 is a two pack, pigmented epoxy filler designed as a ground coat to enhance the appearance of either epoxy or polyurethane topcoats used on the external structure of aircraft.

- Chemical resistant
- Sandable
- Direct adhesion to composites
- Meets SHR requirements of Def Stan 00-80

Components



Mix Ratio (by volume)

- FR80 (Base)
- ACT80 (Activator)
- T17 (Thinner)

1 part 0.1 part

2 parts

Specifications



FR80 is qualified to:

Def Stan 80-216

Product Compatibility

FR80 is compatible with the following primer/topcoat specifications:

- BS2X33A+B
- BS2X34A+B
- Def Stan 80-161

Note: PPG Aerospace recommends you check the most recent specification QPLs for updated information.

Surface Preparation and Pretreatment



Ensure surface is clean, dry and intact, using a high performance cleaner, DeSoto[®] CN20 or Desoclean[™] 45 solvent cleaners are recommended.

Instructions for Use

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Thoroughly stir base to ensure all components are adequately dispersed. Add activator while stirring. Add thinner and stir. Mix well prior to application.

Note: All products and components should be placed in ambient conditions of 15-30°C (59-86°F) for at least 24 hours prior to mixing and application.



Induction Time:

Not required

Viscosity: (23°C/73°F)

- AFNOR4
- BSB3
- FORD4
- ISO3
- ZAHN2

15 - 18 seconds 28 - 34 seconds 14 - 16 seconds 42 - 65 seconds 17 -21 seconds

Note: Viscosities quoted are typical ranges obtained when using specified mix ratio.



Pot Life:

8 hours @ 21 - 25°C (70 - 77°F)

Application Guidelines

Recommended Application Conditions:

Temperature Relative Humidity 15 - 30°C (59 - 86°F) 30 - 80%

Application:

Apply two double track coats (leave 2 minutes in between coats) to the recommended dry film thickness of 30 - 40 μm



Theoretical Coverage: (ready for use)

9 m²/Lt @ 35 µm dry film thickness 343 ft²/US gal @ 1.4 mil dry film thickness

Recommended Dry Film Thickness:

30 - 40 µm 1.2- 1.6 mil



Dry Film Density:

1.97 g/cm³ 16.4 lbs/US gal

Dry Film Weight:

69 g/m² @ 35 μ m dry film thickness 0.014 lbs/ft² @ 1.4 mil dry film thickness

Note: These application guidelines represent PPG's best advice for usage in standard conditions. Some parameters will be influenced by environmental conditions, equipment settings, and other variables.

Equipment:



FR80 is compatible with most current types of spray equipment.

Equipment Type	Tip Size	Material Pressure	Pot Pressure	Atomization Pressure
Airmix	609 to 611	29 to 44 psi (2 to 3 bar)		43 to 58 psi (3 to 4 bar)
HVLP Airspray	1.4 to 1.8			29 psi (2 bar)
Pressure Pot	1.0 to 1.2		10 psi (0.7 bar)	29 psi (2 bar)
Airless	609 to 611			29 to 44 psi (2 to 3 bar)
Air Assisted Electro	609 to 611	29 to 44 psi (2 to 3 bar)		58 to 73 psi (4 to 5 bar)
Low Pressure Electro	1.0 to 1.2	15 to 29 psi (1 to 2 bar)		44 to 73 psi (4 to 5 bar)

Physical Properties



Colour: White



Gloss: ≤ 25 units with a 60° gloss meter



Drying Times @ 50 % R.H.	23°C (73°F)	70°C (158°F)
Dry to flatting & overcoating	8 hours	
Hard Dry	6 hours	1 hours
Full Cure	7 days	3 hours

Note: Drying times listed above are dependent upon film thickness applied, air flow conditions and application technique.



VOC: (ASTM)

N/A

Flash Off Time:

580 g/Lt
550 g/Lt
610 g/Lt
830 g/Lt



Flash Point:

FR80 Base Component	10°C (50°F)
ACT80 Activator	20°C (68°F)
T17 Thinner	16°C (61°F)

Shelf Life:

FR80 Base Component ACT80 Activator T17 Thinner

24 months in original unopened container 24 months in original unopened container 10 years in original unopened container

Note: Shelf life may vary due to OEM specification requirements. Refer to container label for specific shelf life information.

<u>Note:</u> The application and performance property values above are typical for the material, but not intended for use in specifications or for acceptance inspection criteria because of variations in testing methods, conditions and configurations.

Storage Recommendations



Inspect the condition of the container to ensure compliance. The material should be stored at temperatures between 5°C to 35°C (41°F to 95°F) to ensure shelf life. *Note: When procuring to a qualified material specification, follow those storage instructions.*

Health Precautions

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

For industrial use only. Keep away from children.

Additional information can be found at: www.ppgaerospace.com

For sales and ordering information call the local PPG office at the numbers listed below:

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