

Product Description

FE50/6HV is a two pack, polyurethane coating designed for the protection of fasteners and previously painted/sealed surfaces of interior structures of aircraft.

- Excellent flexibility •
- Excellent resistance to aircraft fluids including phosphate ester hydraulic oils •

2 part

1 part

Brush or spray application

Components



Mix Ratio (by volume)

- Base: FE50/6HV
- Activator: ACT34
 - Thinner (see below)

to viscosity Thinner: T74 (small scale spray application) Thinner: T115 (large scale spray application)

Thinner: T127 (brush application - add as required)

Specifications



FE50/6HV is qualified to:

- A2MS 565-007 (Limited Colours Kits Only)
- BAMS 565-007 (Limited Colours Kits Only)

FE50/6HV is listed on:

ABP 4-2128

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 solvent cleaner. DeSoto® CN20 or Desoclean[™] 45 solvent cleaner are recommended. Observe recommended overcoating windows.



Instructions for Use



Stir or shake the base component to ensure complete component dispersion. Add activator to base component and stir thoroughly. Add required thinner to viscosity.

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.



Viscosity: (23°C/73°F)

AFNOR2.5	50 - 68 seconds
AFNOR4	15 - 19 seconds
• BSB3	28 - 35 seconds
• BSB4	16 - 21 seconds
FORD4	14 - 17 seconds
• ISO3	44 - 68 seconds
• ISO4	20 - 32 seconds
• ZAHN2	17 - 22 seconds

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



Pot Life:

4 hours @ 21 - 25°C (70 - 77°F) - Spray Application 3 hours @ 21 - 25°C (70 - 77°F) - Brush Application

Application Guidelines

Recommended Application Conditions:

Temperature	15 - 35°C (59 - 95°F)
Relative Humidity	20 - 85%

Application:

Apply a light coat, flash off for 15 minutes before applying second coat.



Theoretical Coverage: (white)

15 m²/Lt @ 40 μm dry film thickness 600 ft²/US gal @ 1.6 mil dry film thickness

Recommended Dry Film Thickness:

35 - 50 μm 1.4 - 2 mil

FE50/6HV



Dry Film Density:

1.72 g/cm³ 14.4 lbs/US gal

Dry Film Weight: (white)

69 g/m² @ 40 μ m dry film thickness 0.014 lbs/ft² @ 1.6 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:



Equipment Type	Tip Size	Pressure
Airmix	9 to 11 thou	36 to 51 psi (2.5 to 3.5 bar)
HVLP Air Spray	1.0 to 1.8 mm	29 to 43 psi (2 to 3 bar)
Pressure Pot	1.0 to 1.2 mm	29 to 43 psi (2 to 3 bar)
Airless	9 to 11 thou	refer to manufacturer
Air-assisted Airless	9 to 11 thou	36 to 51 psi (2.5 to 3.5 bar)
Low Pressure Electrostatic	1.0 to 1.5 mm	43 to 73 psi (3 to 5 bar)

Equipment Cleaning:

Clean spray equipment before use and as soon as possible after use. DeSoto[®] CN20 or Desoclean^M 45 solvent cleaners are recommended.

Physical Properties



Colour:

Limited colour range available



Gloss:

>85 units with a 60° gloss meter



DRYING TIMES @ 50% RH	23°C (73°F)	70°C (158°F)
Dust Free	2 hours	30 minutes
Dry to Handle	5 hours	30 minutes
Dry to Tape	8 to 16 hours	30 minutes
Hard Dry	16 hours	1 hour
Full Cure	7 days	3 hours

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



Flash Off Time:

30 minutes before force dry



VOC: (ASTM)

Mixed ready for use (unthinned)	350 g/Lt
FE50/6HV Base Component	390 g/Lt
ACT34 Activator	270 g/Lt
T74 Thinner	800 g/Lt
T115 Thinner	870 g/Lt
T127 Thinner	920 g/Lt



Flash Point:

FE50/6HV Base Component	4°C (39°F)
ACT34 Activator	23°C (73°F)
T74 Thinner	-5°C (23°F)
T115 Thinner	-4°C (25°F)
T127 Thinner	36°C (97°F)

Shelf Life:

FE50/6HV Base Component24 months in original unopened containerACT34 Activator24 months in original unopened containerT74 Thinner10 years in original unopened containerT115 Thinner10 years in original unopened containerT127 Thinner10 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 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.

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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.

FE50/6HV

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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