

FE50W Polyurethane Walkway Topcoat

Product Description

FE50W is a two pack air drying, walkway topcoat for use on aircraft.

- Slip resistant
- Low profile to minimise drag
- Excellent fluid resistance
- Used on upper surfaces of aircraft

Components



Mix Ratio (by volume)

- | | |
|---------------------|---------------------------------|
| • FE50W (Base) | 3 parts |
| • ACT34 (Activator) | 1 part |
| • T115 (Thinner) | 0.5 part approx. - to viscosity |

Specifications



FE50W is qualified to:

- Def Stan 80-210 Type 3

Product Compatibility

FE50W is compatible with the following specifications:

- BS2X33
- BS2X34

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 cleaners are recommended.

FE50W Polyurethane Walkway Topcoat

Instructions for Use



Base component may require mechanical agitation. Stir and shake base until all components are adequately dispersed before adding the activator. Stir thoroughly till uniform, then adjust to spray with T115 thinner.

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:

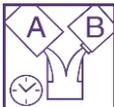
Not required



Viscosity: (23°C/73°F)

• AFNOR2.5	60 - 70 seconds
• AFNOR4	17 - 19 seconds
• BSB3	32 - 36 seconds
• BSB4	18 - 21 seconds
• FORD4	16 - 18 seconds
• ISO4	26 - 34 seconds
• ZAHN2	20 - 23 seconds

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



Pot Life:

8 hour @ 20°C (70 °F)

Application Guidelines

Recommended Application Conditions:

Temperature	15 - 35°C (59 - 95°F)
Relative Humidity	30 - 80%

Application:

Apply 1 double track to achieve the recommended dry film weight.



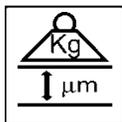
Theoretical Coverage: (unthinned)

17 m²/Lt @ 35 µm dry film thickness
680 ft²/US gal @ 1.4 mil dry film thickness

FE50W Polyurethane Walkway Topcoat

Recommended Dry Film Thickness:

30 - 40 μm
1.2 - 1.6 (mil)



Dry Film Density:

1.6 g/cm³
13 lbs/US gal

Dry Film Weight:

57 g/m² @ 35 μm dry film thickness
0.011 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:



Equipment Type	Tip Size	Pressure
Conventional Air Spray	1.4 to 1.8mm	29 to 36 psi (2 to 2.5 bar)
Airless	611 to 613	29 to 58 psi (2 to 4 bar)

Equipment Cleaning:

Clean spray equipment before use and as soon as possible after use. DeSoto[®] CN20, CN44 or Desoclean[™] 45 solvent cleaners are recommended.

Physical Properties



Colour:

Wide colour range available



Gloss:

< 5 units with a 60° gloss meter



Drying Times @ 23° (73°F) 50 % Humidity	
Hard Dry	< 6 hours
Full Cure	7 days

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



Flash Off Time:

Not Applicable

FE50W Polyurethane Walkway Topcoat



VOC: (ASTM)

Mixed (unthinned)	365 g/Lt
FE50W Base Component	400 g/Lt
ACT34 Activator	270 g/Lt
T115 Thinner	870 g/Lt



Flash Point:

FE50W Base Component	-18°C (-0.4°F)
ACT34 Activator	25°C (77°F)
T115 Thinner	-4°C (25°F)

Shelf Life:

FE50W Base Component	24 months in original unopened container
ACT34 Activator	24 months in original unopened container
T115 Thinner	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.

Note: 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.

FE50W Polyurethane Walkway Topcoat

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:

Asia Pacific

ASC – Australia
Tel 61 (3) 9335 1557
Fax 61 (3) 9335 3490

ASC – Japan
Tel 81 561 35 5200
Fax 81 561 35 5201

ASC – South East Asia
Tel 65 6861 1119
Fax 65 6861 6162

ASC – Suzhou
Tel (86-512) 6661 5858
Fax (86-512) 6661 6868

ASC – Tianjin
Tel (86-022) 2482 8625
Fax (86-022) 2482 8600

Europe and Middle East

ASC – Central Europe
Tel 49 (40) 742 193 10
Fax 49 (40) 742 139 69

ASC – Middle East & India
Tel (971) 4 883 9666
Fax (971) 4 883 9665

ASC – North Europe
Tel 44 (0) 1388 770222
Fax 44 (0) 1388 770288

ASC - South Europe
Tel 33 (0) 235 53 43 71
Fax 33 (0) 235 53 54 44

Americas

1 (818) 362-6711 or 1-800-AEROMIX

Desoclean and DeSoto are trademarks of PRC-DeSoto International, Inc.

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.

This document has been reviewed by the PPG Aerospace Export Control Department and has been determined to contain only EAR99 controlled data

PPG Aerospace
Sealants and Coatings
Darlington Road
Shildon, Co Durham UK
DL4 2QP
www.ppgaerospace.com
Issue Date: 07/20
Lit: 4327