

EC75/C9071 Epoxy Clear Coat

Product Description

EC75/C9071 is a two pack epoxy clear coat designed to provide protection of internal structures of aircraft and land based equipment.

- Excellent adhesion properties
- Applicable over epoxy & polyurethane primers
- High chemical resistance
- High resistance to aircraft fluids including phosphate ester hydraulic fluids

Components



Mix Ratio (by volume)

- EC75/C9071 (Base) 1 part
 - ACT65 (Activator) 1 part
 - T17 (Thinner) 0.33 part (spray application)
- OR
- T17 (Thinner) optional (brush application)

Specifications



EC75/C9071 is qualified to:

- Def Stan 80-161
- MSRR9064

Product Compatibility

EC75/C9071 is compatible with the following primer / filler specifications:

- BS2X32 :1998+A2:2020
- BS2X33A+B
- Def Stan 80-206 (withdrawn - replaced by Def Stan 80-225 Type 1)
- Def Stan 80-207 (withdrawn - replaced by Def Stan 80-225 Type 2)
- Def Stan 80-216
- Def Stan 80-225 Type 1 & 2

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

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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 overcoat window for primers. Ensure temperature and humidity conditions are within specified process limits.

Instructions for Use



Hand stir or mechanically shake base material until all components are uniformly dispersed. Add activator to base, stir thoroughly and add thinner (if required).

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	47 - 60 seconds
• AFNOR4	15 - 17 seconds
• BSB3	27 - 32 seconds
• BSB4	15 - 19 seconds
• FORD4	13 - 16 seconds
• ISO3	39 - 57 seconds
• ISO4	19 - 26 seconds
• ZAHN2	16 - 20 seconds

No viscosity check required for brush application.

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	15 - 35°C (59 - 95°F)
Relative Humidity	30 - 85 %

Application:

Apply one double track coat to achieve recommended dry film thickness of 30 ± 5 µm.



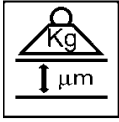
Theoretical Coverage: (ready for use)

9 m²/Lt @ 30 µm dry film thickness
360 ft²/US gal @ 1.2 mil dry film thickness

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Recommended Dry Film Thickness:

25 - 35 μm
1 - 1.4 mil



Dry Film Density:

1.11 g/cm³
9.26 lbs/US gal

Dry Film Weight:

33 g/m² @ 30 μm dry film thickness
0.006 lbs/ft² @ 1.2 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: EC75/C9071 is compatible with most current types of spray equipment.



Equipment Type	Tip Size	Pressure
Conventional Spray	1.2 - 1.5mm	44 to 73 psi (3 to 5 bar)

EC75/C9071 can be applied by brush. (See mix ratio table)

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:

Colourless



Gloss:

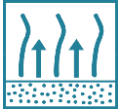
Full Gloss: >85 units with a 60° gloss meter



Drying Times 50 % R.H.	23°C (73°F)	70°C (158°F)
Dust Free	90 minutes	
Hard Dry	16 hours	30 minutes
Dry to Overcoat	4 to 72 hours	
Dry to Fly	48 hours	3 hours
Full Cure	7 days	3 hours

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

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Flash Off:

15 minutes after application prior to force dry



VOC: (ASTM)

Mixed ready for use (spraying)	635 g/Lt
Mixed ready for use (brushing)	600 g/Lt
EC75/C9071 Base	550 g/Lt
ACT65 Activator	650 g/Lt
T17 Thinner	830 g/Lt



Flash Point:

EC75/C9071 Base	20°C (68°F)
ACT65 Activator	20°C (68°F)
T17 Thinner	16°C (61°F)

Shelf Life:

EC75/C9071 Base Component	24 months in original unopened container
ACT65 Activator	24 months in original unopened container
T17 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.

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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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