

5456/.... Celogliss Abrasion Resistant Coating

TECHNICAL DATA SHEET

Product Description

Celogliss is an abrasion resistant, two component polyurethane topcoat. When used with PU66 as an undercoat, 5456 is designed to reduce friction in moving parts.

- Conventional solids
- Good chemical resistance
- Resistant to water, phosphate ester hydraulic fluid
- Abrasion resistant coating

Components



Mix Ratio (by volume)

- 5456/.... (Base Component) 1 part
- 0730/9000 (Activator) 1 part
- 0491/9000 (Thinner) to viscosity

Specifications



5456/.... is qualified to:

- ASNA 3632
- ASNA 4289
- BLGG 140201

5456/.... meets the performance requirements of:

- AIMS 04-04-007

Product Compatibility

5456/... is compatible with the following primer specification:

- AIMS 04-04-001

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, Desoclean™ 45 solvent cleaner are recommended.

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Instructions for Use



Thoroughly stir or shake the base to ensure components are adequately dispersed. Add activator to base whilst stirring, then add required reducer while continuing to stir.

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: (21 - 25°C / 70 - 77°F)

• AFNOR2.5	51 - 71 seconds
• AFNOR4	16 - 19 seconds
• BSB3	29 - 37 seconds
• BSB4	16 - 21 seconds
• FORD4	15 - 17 seconds
• ISO3	45 - 72 seconds
• ISO4	21 - 36 seconds
• ZAHN2	20 - 22 seconds

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



Pot Life:

4 hours @ 21 - 25°C (70 - 77°F)

Application Guidelines

Recommended Application Conditions:

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

Application:

Apply several cross coats to achieve the recommended dry film thickness.



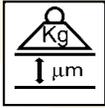
Theoretical Coverage: (unthinned)

4 m²/Lt @ 100 µm dry film thickness
160 ft²/US gal @ 4 mil dry film thickness

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Recommended Dry Film Thickness:

80 - 120 µm - DO NOT exceed 150 µm
 3.2 - 4.8 mil



Dry Film Density:

1.4 - 1.7 g/cm³ (depending on colour)
 11.6 - 14.1 lbs/US gal

Dry Film Weight:

135 - 169 g/m² @ 100 µm dry film thickness
 0.028 - 0.0346 lbs/ft² @ 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 (mm)	Pressure
HVLP Air Spray	1.2	22 to 29 psi (1.5 to 2 bar)
Airless	Not recommended	
Pressure Pot	1.5	43 to 72 psi (3 to 5 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:

This product is available in a wide range of colours.



Gloss:

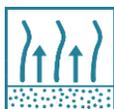
30-40 units with a 60° gloss meter

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Drying Times @ 50% R. H.	23°C (73°F)	80°C (176°F)	100°C (212°F)
Dust Free	1.5 to 2 hours		
Dry to Handle	4 to 5 hours		
Dry to Mask	6 to 8 hours	1 hour	45 minutes
Dry to Overcoat	1 to 24 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:

30 minutes prior to force dry



VOC: (ASTM)

Mixed ready for use (unthinned)	560 g/Lt
5456 Base Component	450 g/Lt
0730/9000 Activator	705 g/Lt
0491/9000 Thinner	840 g/Lt



Flash Point:

5456 Base Component	23°C (73°F)
0730/9000 Activator	5°C (41°F)
0491/9000 Thinner	10°C (50°F)

Shelf Life:

5456 Base Component	24 months in original unopened container
0730/9000 Activator	24 months in original unopened container
0491/9000 Thinner	24 months 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.

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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.

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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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ASC – Australia

Tel 61 (3) 9335 1557
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