

5456/.... Celogliss Abrasion Resistant Coating

Product Description

Celogliss is an abrasion resistant, two component polyurethane topcoat. 5456 is designed for use on surfaces where there is a high risk of abrasion due to contact with moving parts.

- Conventional solids
- Good chemical resistance
- Resistant to water, phosphate ester hydraulic fluid
- High degree of abrasion resistance
- Excellent UV durability

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 (Restricted Colours)
- ASNA 4289 (Restricted Colours)
- BLGG 140201 (Restricted Colours)
- MDL 5040 (54567203 Dark Grey BF4 Only)

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

- AIMS 04-04-007

Product Compatibility

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

- AIMS 04-04-001
- AIMS 04-04-012
- AIMS 04-04-077
- AIMS 04-04-078
- BLGG 140301
- HMDC 0055
- HMDC 0060
- MDL 5041

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 cleaners are recommended. Observe recommended overcoating windows.

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 15-35°C (59-95°F) for at least 24 hours prior to mixing and application.



Induction Time:

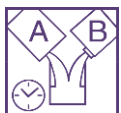
Not required



Viscosity: (21 - 25°C / 70 - 77°F)

| | |
|------------|-----------------|
| • AFNOR2.5 | 56 - 71 seconds |
| • AFNOR4 | 16 - 19 seconds |
| • BSB3 | 29 - 37 seconds |
| • BSB4 | 16 - 21 seconds |
| • FORD4 | 15 - 17 seconds |
| • ISO3 | 50 - 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 - 35°C (59 - 95°F) |
| Relative Humidity | 30 - 85% |

Application:

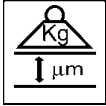
Apply several cross coats to achieve the recommended dry film thickness.

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Theoretical Coverage: (unthinned)
4 m²/Lt @ 100 µm dry film thickness
160 ft²/US gal @ 4 mil dry film thickness

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 to 1.4 | 22 to 29 psi (1.5 to 2 bar) |
| Airless | Not recommended | |
| Pressure Pot | 1.4 to 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 limited colour range



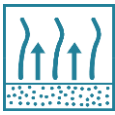
Gloss:
30-40 units with a 60° gloss meter

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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 | 3 hours | |

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) | 580 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 | 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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ASC – Australia
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