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.
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
5456/…. Celogliss Abrasion Resistant Coating

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:

<table>
<thead>
<tr>
<th>Equipment Type</th>
<th>Tip Size (mm)</th>
<th>Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>HVLP Air Spray</td>
<td>1.2</td>
<td>22 to 29 psi</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(1.5 to 2 bar)</td>
</tr>
<tr>
<td>Airless</td>
<td>Not recommended</td>
<td></td>
</tr>
<tr>
<td>Pressure Pot</td>
<td>1.5</td>
<td>43 to 72 psi</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(3 to 5 bar)</td>
</tr>
</tbody>
</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:
This product is available in a wide range of colours.

Gloss:
30-40 units with a 60° gloss meter
## 5456/…. Celogliss Abrasion Resistant Coating

<table>
<thead>
<tr>
<th>Drying Times @ 50% R. H.</th>
<th>23°C (73°F)</th>
<th>80°C (176°F)</th>
<th>100°C (212°F)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dust Free</td>
<td>1.5 to 2 hours</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dry to Handle</td>
<td>4 to 5 hours</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dry to Mask</td>
<td>6 to 8 hours</td>
<td>1 hour</td>
<td>45 minutes</td>
</tr>
<tr>
<td>Dry to Overcoat</td>
<td>1 to 24 hours</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Full Cure</td>
<td>7 days</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*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.*
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.*
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  
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