

# Celoflex™ 95 Erosion Resistant Polyurethane Topcoat

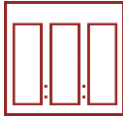
## TECHNICAL DATA SHEET

### Product Description

Celoflex™ 95 is a polyurethane topcoat designed to provide erosion resistance on radomes and leading edges. Celoflex™ 95 is intended for use on non-metallic / metallic parts and areas exposed to rain erosion.

- Excellent fluid and erosion resistance
- Conventional solids
- Excellent UV resistance

### Components



#### Mix Ratio (by volume)

- 5478/.... (Base) 1 part
- 0778/9000 (Activator) 1 part
- 0470/9000 (Thinner) 0.5 - 1 part

### Specifications



5478/.... is qualified to:

- AIMS 04-04-016

5478/.... is compatible with the following primer / topcoat specifications:

- AIMS 04-04-005
- AIMS 04-04-012
- AIMS 04-04-013
- AIMS 04-04-031
- AIMS 04-04-032
- BAMS 565-09
- BLGG 140301
- BMS 10-60
- BMS 10-72
- BS2X34B
- DHMS C4.04

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

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## Surface Preparation and Pretreatment



Apply over a suitably prepared primer/surfacer. 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



Before adding the activator to the base, thoroughly stir or shake the base component until a smooth uniform mix is obtained. Immediately after adding the activator to the base, stir thoroughly then add required thinner while stirring.

*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:**

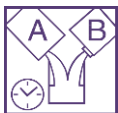
Not required



### **Viscosity:** ( 23°C/73°F)

- |          |                 |
|----------|-----------------|
| • AFNOR4 | 15 - 21 seconds |
| • BSB3   | 31 - 42 seconds |
| • FORD4  | 11 - 17 seconds |
| • ISO4   | 25 - 40 seconds |
| • ZAHN2  | 21 - 28 seconds |

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



### **Pot Life:**

3 hours @ 21 - 25°C (70 - 77°F)

## Application Guidelines

### **Recommended Application Conditions:**

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

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## Application:

Apply 2 or 3 coats. Wait 30 minutes between coats.

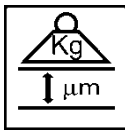


## Theoretical Coverage: (ready for use)

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

## Recommended Dry Film Thickness:

80 - 120 µm  
3.2 - 4.8 mil



## Dry Film Density:

1.26 g/cm³  
10.4 lbs/US gal

## Dry Film Weight: (mix ratio 1:1:1)

126 g/m² @ 100 µm dry film thickness  
0.025lbs/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
Conventional Air Spray	1.5 to 1.8	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:

White (5478/0000)  
Brilliant Dark Grey/Blue (5478/2723)  
Medium Blue/Light Grey (5478/2182)  
Black (5478/2909)

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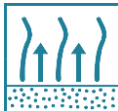
**Gloss:**

>90 units with a 60° gloss meter



Drying Times @ 23°C (73°F) 50% Relative Humidity	
Dry to Handle	4 hours
Dry to Tape	12 hours
Dry to Overcoat	4 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 @ 23°C (73°F)



**VOC: (ASTM)**

Mixed (1:1:1) ready for use	550 g/Lt
5478/0000 Base Component	180 g/Lt
0778/9000 Activator	620 g/Lt
0470/9000 Thinner	850 g/Lt



**Flash Point:**

5478/0000 Base Component	2°C (36°F)
0778/9000 Activator	23°C (73°F)
0470/9000 Thinner	1°C (34°F)

**Shelf Life:**

5478/0000 Base Component	12 months in original unopened container
0778/9000 Activator	12 months in original unopened container
0470/9000 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.*

## Celoflex™ 95 Erosion Resistant Polyurethane Topcoat

### 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](http://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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Tel 33 (0) 235 53 43 71  
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### **Americas**

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

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