



# Product Finishes

## High Performance Polyurethane Topcoat Caterpillar Yellow (A).....F63YC168

### DESCRIPTION

**Polane® HSUrethane Caterpillar Yellow F63YC168** is a high gloss, two-component polyurethane coating formulated to meet Caterpillar specification 1E1952A on metal substrate. A suitable primer is required.

#### Advantages:

- Approved to Caterpillar 1E1952A over a suitable primer on metal substrates (always refer to the current 1E1850 for official Cat approval).
- Complies with 3.5 VOC solvent emissions.
- Excellent exterior durability.
- Excellent physical and chemical properties.
- Excellent appearance over metal Compatible with V66VC232 catalyst.
- Quick film build due to higher volume solids at the gun.
- Free of chromate hazards
- Free of lead hazards as packaged in compliance with Consumer Product Safety Commission's (CPSC) 16 CFR Chapter II: Subchapter B, part 1303.

### CHARACTERISTICS

**Component A:** F63YC168

**Component B:** V66VC232

#### Weight/Gallon (lbs.):

Component A	9.36 ± 0.2
V66VC232	8.89 ± 0.2

#### Weight Solids:

Component A	57.8 ± 0.2%
V66VC232	71.2 ± 0.2%

#### Volume Solids :

Component A	43.0 ± 0.2%
V66VC232	64.8 ± 0.2%

### CHARACTERISTICS (Cont.)

#### Viscosity (Admixed):

2:1 w/V66VC232 Catalyst

14-18 sec., Zahn #3

#### VOC:

Component A	3.95 lbs./gal. 473 grams/liter
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V66VC232	2.56 lbs./gal. 306 grams/liter
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Admixed	3.48 lbs./gal. 418 grams/liter
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**Flash Point:** 91°F Pensky-Martens

#### Mixing Ratios 2:1 (by volume):

2 parts	F63YC168
1 parts	V66VC232
Vol. Solids at Gun	50.3 % at VOC

**Wet Film:** 3.0 – 4.0 mils

**Dry Film:** 1.5 – 2.0 mils  
**Max Recommended DFT** 4.0 mils

#### Theoretical Coverage:

405 sq.ft. /gal. at 2.0 mils

**Cure:** 15 min. flash, 30 min. at 180°F  
15 min. flash, 45 min. at 140°F

Pencil hardness at the end of the recommended cure process will be ~2H and it will increase to 3H in seven days

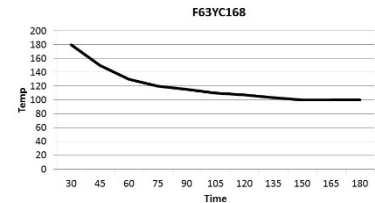
**Working Potlife:** 3 hours

**Recommended Storage:** Inside, sealed container, 40-120F, No freeze hazard. Protect from moisture.

**Package Stability:** After a period of up to 18 months, paint shall remix readily to a smooth homogenous state and shall meet all specified requirements once mixed.

An Environmental Data Sheet is available from your local Sherwin-Williams facility.

### Cure Curve:



### APPLICATION

#### Typical Setups

**Surface Preparation:** All substrates should be free of mold release, oil, and other contaminants.

**May be applied by:** Conventional Spray, HVLP, Electrostatic, and Air Assisted Airless.

#### Conventional Spray:

Air Pressure.....	50-60 psi
Fluid Pressure .....	10-20 psi
Cap/Tip .....	765 Devilbiss / FF

#### HVLP:

Atomized air at the cap .....	10 psi
Fluid Delivery Rate .....	8-10 oz/min
DeVilbiss-EXL	
Tip Size.....	0.055
Cap.....	2000

#### Air Assisted Airless:

Air Assist Pressure .....	30 psi
Fluid Pressure .....	1200-1600 psi
Cap/Tip.....	0.413

#### Product Limitations:

##### DO NOT VARY CATALYST RATIO.

1. Paint to be applied at supplied VOC without reduction. The catalyst ratio has been established for optimum hardness, flexibility, gloss, and chemical and solvent resistance.
2. Do not package high solids urethane coated parts in airtight plastic bags until fully cured.
3. Equipment /application guidelines are only guidelines and individual application/process parameters will dictate exact requirements

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## **CAUTIONS**

**Due to requirements of Caterpillar specifications always verify approval status prior to product introduction at potential customers. To determine the most current level of approval consult Caterpillar's active 1E1850 document or your local SW representative.**

Thoroughly review product label for safety and cautions prior to using this product.

A Material Safety Data Sheet is available from your local Sherwin-Williams facility.

Please direct any questions or comments to your local Sherwin-Williams facility.

Catalyst CONTAINS ISOCYANATES. People who have chronic (long-term) lung or breathing problems or have had a reaction to isocyanates, must not be in the area where this product is being applied. Where overspray is present, a positive pressure air-supplied respirator should be worn. If unavailable, a properly fitted organic vapor/particulate respirator may be effective. Consult catalyst MSDS and product label for complete handling instructions.

**Note:** Product Data Sheets are periodically updated to reflect new information relating to the product. It is important that the customer obtain the most recent Product Data Sheet for the product being used. The information, rating, and opinions stated here pertain to the material currently offered and represent the results of tests believed to be reliable. However, due to variations in customer handling and methods of application, which are not known or under our control, The Sherwin-Williams Company cannot make any warranties as to the end result.

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