

Custom Chemicals and Coatings

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## C3 570 Series Gloss Polyurethane Topcoat

**Product Description:** C3 570 is a two-component polyurethane topcoat formulated to provide a light-fast, gloss finish with excellent color retention and good chemical resistance.

### Features and Advantages:

- ✓ HAPs Free. Low VOC < 2.46 lbs./gal (< 294 g/liter)
- ✓ Gloss Finish, UV Resistant.
- ✓ Chemically Resistant – to gasoline, diesel, oil, mineral spirits, alkali, & inorganic acids.
- ✓ Abrasion and Mar Resistant
- ✓ Excellent Flexibility and Impact Resistance
- ✓ Available in Multiple Colors

**Recommended Uses:** Use as a durable topcoat over properly primed steel, aluminum, stainless steel, galvanized or concrete substrates. This product is ideal for use on oil and natural gas production equipment, storage tanks, transport trailers, commercial vehicles, and general industrial maintenance protection.

### Product Data:

|                        |  |
|------------------------|--|
| <b>Coating Type:</b>   | Acrylic Aliphatic Polyurethane                                     |
| <b>VOC:</b>            | 2.46lbs. /gal (295 g/L)  |
| <b>HAPs:</b>           | 0.0 lbs. /gal (None)   |
| <b>Volume Solids:</b>  | 68% (+/- 1%)   |
| <b>Weight Solids:</b>  | 72. % (+/- 2%)   |
| <b>Reducer:</b>        | C3 Thinner 970   |
| <b>Density:</b>        | 8.93 +/-0.3 lbs. /gal (mixed)                                      |
| <b>Mixing Ratio</b>    |  |
| <b>By Volume:</b>      | 1 Part A (Activator) to 4 Parts B (Base) by Volume                 |
| <b>Film Thickness:</b> | 1.5-2.0 mils Dry Film Thickness<br>2.5-3.0 mils Wet Film Thickness |

### Coverage:

469-652 sq. ft. / gallon (@ 1.5-2.0 mil DFT)  
218-363 sq. ft. /gallon (@ 3-5 mils DFT)

**Mixing:** Thoroughly mix Part B Base separately for 3-5 minutes until uniform re-disperse any pigments or solids that may have settled during shipment. An air driven or other mechanical power mixer is recommended. Add 1 part of component A = Activator to 4 parts of component B = Base by volume and mix thoroughly for 3-5 minutes until uniform. This is a two-component product and it will not dry or cure without the proper combination and amount of Part A and Part B. "Box" mixed material (fully pour from one container to another) to ensure uniform mixing before using.

**Reduction:** Reducer is not normally required, but if desired add 3-5% by volume of **C3 Thinner 970** to lower viscosity. Only add reducer after combining Part A with Part B.

**Application:** Check weather conditions before attempting exterior applications. Apply only in good weather or in areas protected from exterior environmental conditions. Air and substrate temperature must be at least 35°F or higher and should be 5°F (3°C) above the dew point and should remain steady or rising during the application and drying period. Avoid painting late in the day when air temperature decreases and the relative humidity increases toward the dew point. Water condensation on the newly painted film may cause surface imperfections and contribute to poor cure.

The preferred application method for new construction is by airless spray; however lining existing tanks may be coated using brush or roller application.

**Brush and Roller** – Use only natural bristle brushes. Use 1/4"-3/8" nap, phenolic or solvent resistant core, rollers. Apply in a manner to avoid excessive back brushing or back rolling over previously painted areas. Multiple coats may be required to achieve desired DFT.

**Conventional spray** – Separate air and fluid regulators are recommended. Use DeVilbiss MBC gun; 704 air cap; F tip and needle or DeVilbiss JGA gun; 765 air cap; E tip and needle, or equal. Atomization air pressure 60-75 psi. Fluid pot pressure should be approximately 8-10 psi or as needed to deliver 12-16 fluid ounces per minute application rate.

**Airless Spray** – Use a 30:1 ratio or higher Graco air driven fluid pump; Graco Silver Plus gun with 0.013” – 0.017” orifice reverse-clean tips or equal. Fluid pressure should be 1,800 – 2,000 psi or as needed to eliminate “fingering”.

**Brush and Roller** – Use only natural bristle brushes. Use 3/8” nap, phenolic or solvent resistant core, rollers. Apply in a manner to avoid excessive back brushing or back rolling over previously painted areas.

**Dry Times and Cure Schedule:** Dry times @ 77°F (25°C) 50% Relative Humidity and 3-5 mils DFT

To Touch: 45 minutes to 1 hour  
To Handle: 2 Hours  
To Recoat: 2 Hours  
Full Cure: 5-7 Days  
Overcoat Interval: Minimum 4 hours

**Pot Life:** 2-3 Hours @ 77°F (25°C) 50% RH

**Note:** Dry times vary depending on temperature, humidity, film build and air movement.

**Note:** Pot Life may be significantly shortened (< 30 minutes) at higher temperatures (95°F+). Lower temperatures will increase Pot Life and Dry Times.

**Note:** Chemical Cure Accelerator, **C3 Speed 815** is available for this product to speed cure under low temperature conditions. Consult with your C3 representative for proper use.

**Surface Preparation:** The surface must be previously coated with a suitable primer or coating. Contact a Technical Sales Representative for specific primer recommendations. The substrate must be clean, dry and free of all dust, dirt, oil and grease, cleaning compounds, salt deposits or other contaminants. This product may be applied over previously applied, intact coatings. A small area of the existing coating should be tested for lifting or adhesion loss prior to full application.

**Packaging:** - This product is a two component material formulated to a **1A to 4B** volume mixing ratio.

**1.25 Gallon Kit** Full Quart of Part A = Activator  
Full Gallon of Part B = Base

**5 Gallon Kit** Full Gallon of Part A = Activator  
4 Gallons of Part B = Base in 5 gal pail

### **Health and Safety:**

**Keep out of reach of children.**

**Use with adequate ventilation.**

This product contains flammable liquids. Keep away from heat, sparks or open flames. If applied in enclosed areas, provide proper air circulation to maintain exposure to solvents below the permissible levels (see SDS) or provide air supplied respirators or air supplied hoods to prevent exposure.

Avoid prolonged contact with skin and avoid exposure to spray vapors or mists. Use protective barrier cream on exposed skin to prevent contact. Persons who are hypersensitive to epoxy coatings should avoid contact with this product.

Follow the manufacturer’s instructions on the proper use and maintenance of spray equipment. High pressure airless spray equipment can inject coatings into the skin and may cause serious injury.

Follow all local, state and federal regulations for the proper handling and disposal of all paint, and paint related waste generated from the use of this product.

Use only fiberglass or fire resistant filters for spray booth operations. Follow OSHA regulation 1910.107 (CFR 29) pertaining to spray finishing. Dispose of used filters according to OSHA 1910.107(b) (5) (ii) to prevent spontaneous combustion of waste materials. Information on spray paint regulations and proper disposal may be obtained at [www.osha.gov](http://www.osha.gov).

**Read and understand the Safety Data Sheet (SDS) before using this product.**

**Disclaimer:** Information presented in this Product Data Sheet is believed to be true and accurate and is generated or obtained from accurate and reliable sources. Information is provided here only as a guide to proper product use.

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