

Simco Coatings Inc.

Manufacturer of Military Spec.,  
Corps of Engrs. Spec, Industrial, &  
Marine Coatings

**MIL-PRF-85285 (SEMI-GLOSS & FLAT COLORS)**  
**ALIPHATIC POLYURETHANE COATING**  
**FOR AIRCRAFT AND SUPPORT EQUIPMENT**

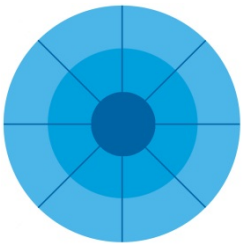
**DESCRIPTION:** A two component, VOC compliant, polyester/aliphatic polyurethane coating that is intended for use on aircraft weapons systems and other applications.

**CONFORMANCE:** This product conforms to MIL-PRF-85285 Rev. E (the latest Revision), Type-II, Class H. This data sheet can be used for certain previous revisions of MIL-PRF-85285 and MIL-C-85285. Contact us for details.

**TECHNICAL DATA**

<b>COLORS &amp; FINISH:</b>	Fed-std-595, Colors in semi-gloss and camouflage/flat finish
<b>GENERIC TYPE:</b>	Polyester/Urethane
<b>MIXING RATIO:</b>	4:1 by Volume
<b>SOLIDS BY WEIGHT %:</b>	60-70 (Varies with Type & Color)
<b>SOLIDS BY VOLUME %:</b>	52-58 (Varies with Type & Color)
<b>VOLATILE ORGANIC COMPOUNDS (VOC):</b>	
<b>TYPE-II:</b>	2.80 lbs./gal. or 340 g/l
<b>RECOMMENDED DRY FILM THICKNESS:</b>	1.5 – 2.0 mils/coat
<b>THEORETICAL SPREADING RATE:</b>	250 sq. ft. /gal. @ 2.0 Mil DFT
<b>VISCOSITY:</b>	30 seconds Max Ford Cup #4
<b>GLOSS @ 60°</b>	
<b>SEMI-GLOSS FINISH</b>	15-45
<b>LUSTERLESS FINISH</b>	< 5
<b>FLASH POINT:</b>	89 °F
<b>DRYING TIME @ 75°F:</b>	
<b>(A) SET TO TOUCH, HRS. MAX:</b>	6
<b>(B) DRY HARD, HRS. MAX:</b>	12
<b>(C) OVERCOAT:</b>	16
<b>POT LIFE @ 25°C/77°F HRS. MIN:</b>	5
<b>RECOMMENDED PRIMERS:</b>	MIL-PRF-23377 or MIL-DTL-24441
<b>THINNER:</b>	MIL-T-81772, Type-I Thinner for Polyurethane Coating
<b>SHELF LIFE:</b>	1 Year from the date of Manufacture

Simco Coatings Inc.  
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**PACKAGING:**

This product is supplied in 1 Gallon kits, which consists of 0.80 Gallons of the Paint (Short Filled in 1-Gallon container) and 0.20 Gallon of the Hardener (Curing Agent) (Short Filled in 1-Quart container). These are both packaged separately.

**MIXING & INDUCTION TIME REQUIREMENT:**

Using the proportion of 4:1 of Component A to Component B, do the following: Agitate Component A by itself with a hand spatula, and then slowly pour in Component B (Hardener/Activator) and mix till mixture is smooth and uniform. At a temperature range of 70 °F – 80 °F, let mixture stand for 15 minutes after mixing both components and before application. Colder temperatures will require a longer induction time. If using thinner, only use MIL-T-81772 Type I Polyurethane Thinner (maximum of 5% by volume) and only add it after Component A & Component B have been thoroughly mixed together. Do not exceed VOC limits.

**RECOMMENDED SUBSTRATE CONDITIONS (STEEL, ALUMINUM, OR GALVANIZED):**

Apply over MIL-PRF-23377 Primer. Surface must be clean and free of grease, dirt, oil, rust and other contaminants that could interfere with proper adhesion.

**REDUCTION:**

Reduce with MIL-T-81772 Type-I as required. (No more than 5% by Volume & Do Not exceed VOC limits)

**CONVENTIONAL SPRAY:**

Atomizing Pressure: 45 - 55 psi  
Pot Fluid Pressure: 10 - 20 lbs.

**AIRLESS SPRAY:**

Tip Size: 0.011 - 0.015" orifice  
Atomizing Pressure: 1800 - 2200 psi

**CLEAN-UP:**

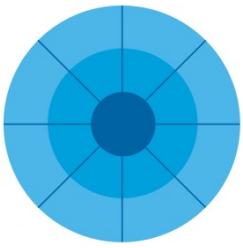
Clean tools and equipment immediately after use with MIL-T-81772, Type-I

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**SAFETY PRECAUTIONS:**

- (A) Use normal precautions such as gloves and facemasks.
- (B) Adequate ventilation must be maintained.
- (C) Explosion proof lights and electrical equipment.
- (D) Non-sparking shoes and tools for workers in area.
- (E) This product contains flammable materials. Forbid all flames, smoking and welding in work area.
- (F) Avoid breathing of vapor, contact with skin and eyes. If product comes in contact with skin or eyes, wash thoroughly with water and obtain immediate medical attention.

This product is intended for professional use in an industrial environment only. Consult the Material Safety Data Sheet prior to application.

**NON-WARRANTY:**

The technical data listed herein has been compiled for your convenience and guidance, and is based upon our experience and knowledge. However, since we have no control over the use of this information or this product, no warranty, expressed or implied, is intended or given. Simco Coatings, Inc. assumes no responsibility whatsoever for coverage, performance or any other damages, including injuries resulting from us of this information or of products recommended herein.

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