SHERWIN-WILLIAMS

AEROSPACE COATINGS

PRODUCT DATA

Jet Glo Express™ Military

MIL-PRF-85285E, Type I, Class H
840 and 843 Series (YM, YMS, ZM and ZMS Colors)

ADVANTAGES

- Simple mix ratio.
- Qualified to the military aircraft specification MIL-PRF-85285E, Type I, Class H approved by the U.S. Naval Air Warfare Center (NAWC), Patuxent River, MD.
- Fast dry times. (Improves shop processing flow)
- Same proven performance as Jet Glo®, but in a high solids system.
- Good buffing characteristics.
- Chemical resistant, including Skydrol and other hydraulic fluids.
- Exhibits outstanding gloss, and gloss retention upon weathering.
- Excellent flow and leveling.
- Excellent Distinctness of Image (DOI).
- Contains less than 3.5 lbs/gal.

DESCRIPTION

Jet Glo Express™ is a high-performance, two-component polyester urethane, designed for exterior use on high performance general aviation and commercial aircraft. This coating is qualified to MIL-PRF-85285E, Type I, Class H. Approval letter is available upon request.

COATING PROPERTIES

	Base Component	Admixed
Solids:		
By weight	61.6 - 85.8%	57.9 - 68.7%
By volume	52.4 - 72.6%	49.9 – 53.3%
Wt./Gal.	8.3 - 13.1 lbs.	8.2 – 10.3 lbs.
Sp. Gravity	0.996 – 1.572	0.984 – 1.236

Viscosity–Sprayable	
Gardner #2 Zahn Cup (Signature Series)	16-22 seconds
Admixed V.O.C. (Mixed 1:1)	
U.S. Exempt Solvent	<3.5 lbs./gal (420 g/L)
Non-Exempt Solvent	<3.5 lbs./gal (420 g/L)
Useable Pot Life	
at 77°F / 25°C	4 Hours
Gloss:	
YM & ZM Colors	90+ Units (60°)
YMS & ZMS Colors	15-45 units (60°)
Theoretical Coverage	
Per dry mil	800-960 $ft.^2$ / gal.
Per 25 microns	19.6 - 23.6 m^2 / L
Dry Film Weight	
Per dry mil	0.0059 – 0.0083 lbs. / $ft.^2$
Per 25 microns	29 - 41 g / m^2

SHELF LIFE

Shelf Life is applicable only for materials stored in unopened and undamaged original factory filled containers.

Minimum Storage Temp: 40ºF / 4ºC
Maximum Storage Temp: 100ºF / 37ºC

CM0840XXX or CM0843XXX (YM or ZM-colors) Base Component: 3 years
CM0843H81: 2 years
CM0843AR3: 3 years

SURFACE PREPARATION

Primed Surface

Jet Glo Express™ should be applied to a surface that has been coated with an approved, properly prepared and applied Sherwin-Williams Aerospace primer system.
Refer to Sherwin-Williams Primer Product Data Sheets such as CM0724933 - MIL-PRF-23377, Type I, Class C2.

Contact your Sherwin-Williams Representative for complete details.

MIXING INSTRUCTIONS

Shake color component for 10-15 minutes before admixing.

Admix by Volume:

1 Part	Jet Glo Express™ Color (840 and 843 series Factory Pack Colors and YM-, YMS-, ZM- and ZMS- Color Numbers)
1 Part	Jet Glo Express™ Activated Hardener **CM0843H81**
1/4 Part*	Jet Glo Express™ Activated Reducer **CM0843AR3**

*For optimum finish on YM and YMS Colors (90% or more white toner), an additional ¼ part of CM0110944 US Exempt Reducer or CM0843AR3 Activated Reducer can be added. Additional reduction using CM0843AR3 can change the application VOC to be greater than 3.5 lbs./gal. (420 g/L).

Admixed product should be allowed a 30-minute induction time for optimum application performance.

APPLICATION

This product can be applied using conventional air spray equipment, HVLP, air-spray / electrostatic, or air assisted airless / electrostatic. Please consult your Sherwin-Williams representative for specific equipment settings.

Best application results are obtained by applying two medium wet coats, allowing a 30-45 minute “tack-off” period between coats.

Recommended dry film thickness is 2-3 mils (50-75 microns). Some colors may require thicker films to achieve complete hiding.

NOTE: Application of these product systems requires recommended temperature / humidity conditions and film thickness ranges. The material, hangar, and aircraft skin temperature should be no lower than 55ºF / 13ºC before, during, and after application.

DRYING SCHEDULE

Dry times are based on the dry film thickness of 2-3 mils (50-75 microns).

Air Dry Times (75°F / 25°C and 50% RH)

Tack Free	3-4 Hours
To Tape	6-8 Hours

Force Dry Times (120°F / 50°C and 50% RH)
Flash off at ambient temperature for one 1/3rd of the chosen activators

To Tape	3-4 Hours

Recoat Time: (maximum) 24 Hours

NOTE: Lower temperatures, heavy film thickness, improper activator range selection and poor air movement will extend the dry time.

RECOATING THE DRY TOPCOAT SURFACE

For best adhesion of trim colors to the cured urethane base coat, a thorough scuff sanding is recommended. Scuff sanding and cleaning will assure long-term durability and adhesion of the applied coating. Refer to Sherwin-Williams’ process and training guides for cleaning.

EQUIPMENT CLEANUP

Use clean Ketone–type solvents such as CM0110308 MEK. Do not allow material to cure inside equipment.

PRODUCT INFORMATION

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.