



TECHNICAL INFORMATION
LOW VOC WATERBORNE POLYURETHANE COATING
BLACK 37030
F93BC502 / V93V500

CHEMICAL
COATINGS

PRODUCT DESCRIPTION

F93BC502 is a two component camouflage topcoat. The components when properly mixed and reduced with deionized water may be sprayed applied to properly prepared surfaces. This product is intended for use on military aircraft. This product is similar to F93B502 which appears on the QPL for Mil-C-29475.

CHARACTERISTICS

Color: Fed. Std. 595B # 37030

Admix ratio: 4:1:1.7 by volume

Component A

Non volatiles, weight: 49.0 ± 2.0%

Non volatiles, volume: 37.0 ± 1.0%

VOC: 190g/l or 1.58#/gal minus water

Component B

Non volatiles, weight 70.0%+/-1.0%

Non volatiles, volume 63.8%+/-1.0%

VOC: 313g/l or 2.61/gal

Admixed Constants:

VOC: 1.79 lb./gallon or 215 g/l max.

Admixed 4:1

Volume solids: 42.3%

Admixed 4:1:1.7

Viscosity: 20-25 sec, #2 Zahn

Volume solids 31.6 % (admixed 4:1:1.7)

Theoretical Coverage:

678sq.ft./gallon @ 1.0 mil dry
no application loss

Gloss: Gloss at 3.0 mils dry. 0.3 max. 60°
1.8 max. 85°

HMIS Codes: H 2 F 0 R 0 PP 1

Flash Point No Flash

Pot Life: 4 hours

Cure Data: This products cure depends on temperature and humidity.

Cure rate at 70° F and 50% R.H.

Set to touch: 30 minutes

Dry hard: 3 hours

Dry through: 4 hours

APPLICATION

Component A should be shaken 5 minutes on Red Devil type shaker before opening. Mix Component B into Component A using mechanical mixer such as a jiffy mixer. The viscosity of the admixed components will increase. Mix well then reduce to spray viscosity by adding deionized water. Mix by volume, 4 parts A, 1 part B, and 1.70 part deionized water. Mix well.

Substrate Preparation: Substrate should be clean, free of grease, dirt, rust or other contaminants which may cause adhesion problems. Recommended primer is Hydralon P. Allow primer to dry overnight. Then apply topcoat.

Equipment:

AA Airless : AA PLUS

Tip size: .511

Pump : 30:1

Air Pressure: 1300psi / 45lbs air assist

HVLP: Devilbis JGHV530

Tip: FF Needle & 0.055"

Air Cap 46MP

Air pressure: 65lbs. Inlet Air

Fluid pressure: 20lbs. fluid

Clean Up: Flush line with clean water.

Then use MIL-T-81772, Type1 thinner for final equipment and line wash.

Special Instructions:

Disposal: Do not dispose of in sealed drums.

"Disposal" caution - This Waterborne polyurethane should not be disposed of in a sealed container due to carbon dioxide generation. Allow unused material to cure in a vented container and dispose of according to state, federal or local regulations for hazardous material.

CAUTIONS

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 above 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 know or under our control, The Sherwin-Williams Company cannot make any warranties or guarantees as to the end results.

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SG-9/13/99