



AXON PRODUCTS

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AEROSPACE TECHNICAL DATA

WS-3 SERIES

SEMI-GLOSS WATERBORNE POLYURETHANE TOPCOAT SINGLE COMPONENT- FAR 25.853 BURN TEST APPROVED

Revised: July 2009

PRODUCT DESCRIPTION:

This series of semi-gloss water base topcoats is designed for use over various plastic substrates including ABS, Tedlar, polycarbonate, polysulfone and primed metal. Normally it does not require the use of primer for adhesion purposes. The WS-3 Topcoats have excellent adhesion, mar and scratch resistance, as well as solvent resistance. They display superior clean ability and stain resistance.

MEETS OR EXCEEDS PERFORMANCE REQUIREMENTS OF REGULATION:

Boeing BMS 10-83 Type VI / F.A.R. 25.853 VERTICAL BURN / OHIO STATE HEAT RELEASE AND SMOKE DENSITY.

SURFACE PREPARATION:

Clean the area to be painted with a mild cleaner to remove all contamination. Scuff abrade with Scotch Brite pads or sandpaper. Wipe up all abrasion residues with isopropyl alcohol (or other suitable cleaner) and a clean cotton cloth. Just prior to the coating application, lift any remaining lint or dust with a tack cloth.

Note: Some substrates require more abrasion than normal for full adhesion of the coating: e.g. Tedlar, IPA and acetone can be cut with water by 10-20% to help wetting the surface.

Primers to be used with waterborne material are EP-2-Y1, EP-3-GN1, and zinc primers.

MIXING / APPLICATION:

Mix the paint well by stirring. Do not use a paint shaker as foaming may result. Spray apply the topcoat in 2 or 3 wet coats to a wet film thickness of 3 to 4 mils. Any standard suction, pressure pot, HVLP or airless spray equipment may be used. This product can be rolled. The proper roller is a 1/8" foam roller. This topcoat lends itself very well to achieve a texture effect when desired. Coating will dry to touch in 30 minutes to 1 hour, tack free in 1 to 2 hours and dry hard in 8 hours at normal environmental conditions of 70°F.

PHYSICAL PROPERTIES:

Appearance:	Semi-gloss, various colors
Gloss:	20 - 30 @ 60°
Solids by Weight:	40 - 45 theoretical depending on color
Solids by Volume:	28 - 30 theoretical depending on color
Solvent Resistance:	20 Double Rubs MEK
Coverage:	449 - 481 sq. ft./mil/gallon @ 100% transfer depending on color
Viscosity:	20 - 30 seconds, #3 Zahn
Volatile Organic Content:	1.9 lbs/gallon maximum
Shelf Life:	1 year from date of manufacture
Storage Temperature:	40 - 95°F

PRECAUTIONS:

Use with adequate ventilation and proper respiratory protection. See MSDS for complete details of composition and required precautions for safe use.