



Description

AC-850-AERO-D-TAN is an air curing, hand peelable coating designed to be rapidly applied with hot airless spray equipment, that provides protection to metallic surfaces during transportation, fabrication, chemical processing, chemical milling, metal bonding, and storage.

Product Performance

AC-850-AERO-D-TAN was designed to be applied to metal parts - especially skin quality aluminum parts - when first received. Parts may then be formed, aged for 10 hours @ 375°F. in air, bonded, routed, drilled, and countersunk. AC-850-AERO-D-TAN resists the solutions used in the bonding processes, including phosphoric anodizing.

Skins protected with AC-850-AERO-D-TAN may be aged in air @ 375°F. for 10-12 hours. AC 850-AERO-D-TAN performs equally well in both the 250°F. and 350°F. bonding processes and was designed to withstand outdoor storage when exposed to direct sunlight for 30 days.

Do not immerse AC-850-AERO-D-TAN in solvents or vapor degreasers as they will dissolve the coating.

Product Characteristics (as shipped)

Appearance	Tan Viscous Liquid
Solids Content (% by weight)	21.0 ± 2%
Solids Content (% by volume)	24.0 ± 2%
Coverage (ft²/mil of dry film/gal.)	385
Weight (Lbs./Gal.)	12.5 + 0.2
Flash Point (T.O.C.)	None
Storage Life (Ambient Temperatures)	2 years in sealed container
Solvent System	Perchloroethylene and Xylene

Product Characteristics - Typical Results (Cured Film)

Tensile Strength (psi)	700 lb. minimum
Elongation	300% minimum
Adhesion (Typical values in oz./inch width)	
Air dry	6 - 14 oz.
After 10 hrs @ 375°F.	16 - 24 oz.
After 250°F. Bonding	8 - 16 oz.



Product Precautions

WARNING! CONTAINS PERCHLOROETHYLENE AND XYLENE. HARMFUL OR FATAL IF SWALLOWED. VAPOR HARMFUL IF INHALED. KEEP OUT OF REACH OF CHILDREN. Keep away from heat, sparks, hot glowing surfaces, and open flame. Keep container closed when not in use. Use with adequate ventilation. Avoid breathing vapor. Avoid prolonged or repeated contact with skin. While spraying, wear a suitable mask to prevent inhalation of overspray. **DO NOT TAKE INTERNALLY. CONSULT MATERIAL SAFETY DATA SHEET FOR HANDLING AND SAFETY INFORMATION.**

Product Packaging

AC-850-AERO-D-TAN is furnished in 5 gallon pails and 55 gallon F.O.T. nonreturnable steel drums.

Product Use Instructions

General –

The directions and recommendations given below are intended to serve as a guide and may need modification to meet local conditions.

Mixing –

AC-850-AERO-D-TAN should be thoroughly mixed prior to use and remixed at least once every 4 hours. Avoid introducing air into the coating during mixing. Parts must be clean and dry before coating for optimum performance.

Thinning –

Use AC-850-AERO-D-TAN as received. Should the material thicken during use due to evaporation, thin with perchloroethylene.

Recommended Dry Film Thickness –

Six to 15 mils depending on the process requirements.

Cure Cycle –

Allow the film to air cure for 8 hours minimum at 65°F. or above. At lower temperatures allow additional curing time. An oven cure for 30 minutes @ 150°F. may be used after 1 to 2 hours air dry to speed processing. Baking the dried masked parts for one hour at 200°F. will minimize the seepage of anodizing solutions at the edge of the maskant.

Hot Airless Spray Application

Equipment –

1. Hot circulating 30:1 airless spray unit.
2. Tips - Graco 163-823, 163-825, or equivalent, for parts larger than 12" x 12".
3. Tip Filter Unit - consists of:
 - 1 only, Graco 205-264 tip filter 100 mesh;
 - 1 only, Graco 220-253 tip filter unit

Pressures and Temperatures –

1. Air Pressure - 80 lbs.
2. Back Pressure - 1600 - 2,100 lbs, or when no pressure gauge is present, 1 cycle per 7 seconds with the air pressure set at 85#.
3. Maskant Temperature - 130°F. to 160°F.



Application –

Hold the spray gun 10 to 14 inches from the part. The speed with which the spray gun is moved determines the quality of the sprayed film. A slow moving spray gun with wide overlaps produces spongy films. The more rapidly the spray gun is moved over the part, the better the quality of the dry film.

1. Apply 2 box coats or 3 - 4 vertical passes. Allow to dry tack free.
2. Repeat step 1 until the desired film build is obtained.

The superior “nonsag” characteristics of AC-850-AERO-D-TAN allow the coating to be applied more rapidly than conventional type coatings. A box coat consists of a series of vertical and horizontal passes over the same surface. A 50 - 75% overlap is used, depending on the speed with which the spray gun is moved.

Warranty

The following warranty is made in lieu of all other warranties, either expressed or implied. This product is manufactured of selected raw materials by skilled technicians. Neither seller nor manufacturer has any knowledge or control concerning the purchaser's use of this product and no warranty is made as to the results of any use. The only obligation of either seller or manufacturer shall be to replace any quantity of this product, which is proved to be defective. Any claim of defective product must be received in writing within one (1) year from date of shipment. Neither seller nor manufacturer assumes any liability for injury, loss, or damage resulting from use of this product.

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