

Eldorado AC-12

Eldorado AC-12 is a phosphoric acid-based cleaner used for removing corrosion and for bright etching aluminum aircraft surfaces. AC-12 deep cleans and conditions the metallic surface leaving it corrosion free and ready for bonding, welding, painting, or protective chemical treatments.

Conforms To

- AMS
 - AMS 1640
- Military
 - MIL-C-38334
 - Type I, Class 1

McGean® recommends checking the most recent specifications for updated information.

Benefits

- Viscous liquid for application to vertical surfaces and large structures.
- Powerful cleaning action removes oxides and corrosion products.
- A nonflammable product with a mild agreeable odor.
- Safe on paint, Plexiglas and most plastics.

Properties

- Viscous liquid
- Pink in color

Notes Prior to Handling

Before using your Cee-Bee® products, all safety and operating instructions should be read and understood. If you have any questions, please contact your Cee-Bee® representative before proceeding.

Use Procedure

Surface Preparation and Pretreatments:

Surfaces should be clean and free of paint and greasy soils that interfere with the etching process. An alkaline cleaner may be used to remove greasy soils.

Application Guidelines:

Recommended Application Conditions:

Temperature	15 - 30°C (59 - 86°F)
Relative Humidity	20 - 90%

Small Area Application:

AC-12 may be used full strength or diluted with water to a maximum mix ratio of 1:1 by volume, depending on the magnitude of corrosion deposits. Apply to the corroded areas by brush, spray, flow-on or immersion. Allow the solution to dwell on the aluminum for 1 to 5 minutes. Agitate the surface during this time with an abrasive mat, stainless steel or non-metallic brush. Rinse thoroughly with fresh warm water. After each treatment, examine the treated area and determine if all corrosion products have been removed. If not, repeat this process a few more times. If corrosion products remain after several applications, use an approved mechanical method (sanding or grinding) to remove the remaining corrosion products and properly reshape the surface. A few minutes after application of AC-12, the aluminum will begin to fizz and form a layer of foam. This is an indication the brightener (etch) has removed surface oxidation and reacted with the underlying pure metal. If the foam has not formed, or is non-uniform (patchy), this can be an indication of heavy oxidation or a residual coating, meaning the brightener step may need to be repeated until satisfactory results can be obtained. Afterward, use a fine abrasive paper to remove brush marks, scratches, and smooth the area. If applicable, reapply a conversion coating treatment immediately after the final rinse.

Use Procedure (Continued)

Large Area Application:

AC-12 diluted 1:1 with water is recommended for use in the wash rack area after all rework and when the aircraft is available for repainting. Begin by pre-wetting the surface with water. AC-12 is best applied by a non-atomizing spray (stainless steel, barrel pump and spray wand). Begin the application at the lowest point (belly) and work upward to the highest point (crown). Contact time is 3 to 10 minutes, or until the foam created starts to break and slide down the surface. The surface should be agitated rapidly with a soft mop and immediately rinsed with water. To avoid streaking the aircraft, rinse from the bottom, working to the top and down again. Check that all water entrapment areas have proper drainage and cleared of debris that blocks the water flow. Never allow AC-12 to dry on the surface or contact time to exceed 15 minutes.

Depending on available manpower, larger areas should be broken into sections of 10 to 20 foot length for brightening. One member of the crew can apply brightener to the first section and move to the next, after a few minutes another member will agitate the first section then move to the next, after which the first section is immediately followed with a rinse. During this brightening process keep the surfaces wet and do not allow residues to dry up which creates chalky streaks on the surface. The rinsed surface should be free of foam, have a water break free film, drying uniformly from the top down to produce a clean, soft lustrous surface. If no surface treatment is required, painting operations can begin as soon as the surface is thoroughly dry.

Note:

- Chemical removal of corrosion is limited to light corrosion and pitting only. Moderate to severe corrosion (deep pitting >0.01-inch, exfoliation, or intergranular) requires mechanical rather than chemical removal. Never use brass or iron bristle brushes to remove corrosion as copper or iron brush particles may embed in the aluminum and cause “galvanic corrosion”.
- Non-clad or bare aluminum alloys with high copper content may turn dark after application of AC-12. This dark film, known as “smutting”, can be removed by scrubbing with a mop or soft brush soaked with dilute brightener during the surface rinse.

WARNING!! Always protect high-strength steel and glass by masking. Contact of corrosion removing compounds with high-strength steel may cause hydrogen embrittlement and result in abrupt part failure. AC-12 is not recommended for use on magnesium, cadmium plate or anodized aluminum, as it can remove the coating. Do not place in galvanized or glass containers; always use chemically resistant plastic or stainless-steel equipment



Product Data Sheet

Safety, Handling, and Precautions

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Contact Us

United States

McGean

Phone: +1-216-441-4900

Fax: +1-216-441-1377

Email: Aviation@McGean.com

United Kingdom

McGean-Rohco (UK) Ltd.

Phone: +44-1902-456563

Fax: +44-1902-457443

Email: Aviation@McGean-Rohco.co.uk

Singapore

McGean Singapore

Phone: +65-6863-2296

Fax: +65-6863-2297

Email: Info@ceebee.com.sg

China

Cee-Bee Aviation Materials (Xiamen) Co. Ltd.

Phone: +86-592-551-3689

Email: Info@ceebee.com.cn

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CAUTION: Before using any of these products, you must become completely familiar with the safety and hazard information contained in our safety data sheets regarding these products. McGean-Rohco, Inc. (the seller) presents the information contained herein without warranty and disclaims any liability from its use or misuse. Seller recommends use of the information Seller's products solely in commercial processes which are specified by Seller and which do not violate any third party patent rights or any laws or regulations. The seller makes no warranties, express or implied, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose except as expressly stated in the seller's sales contract or sales acknowledgement form.



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