



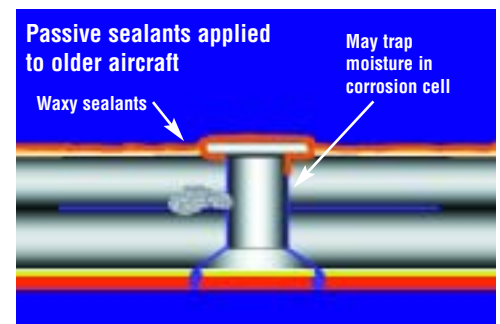
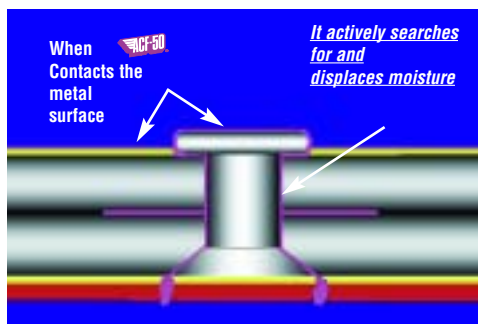
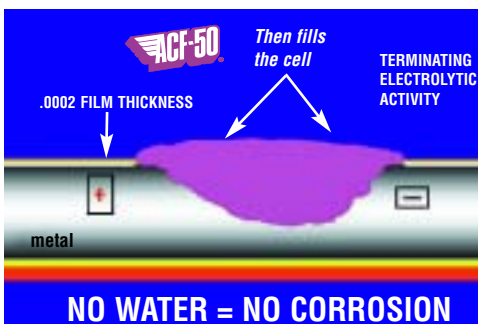
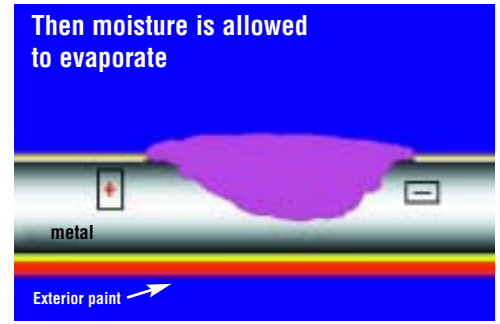
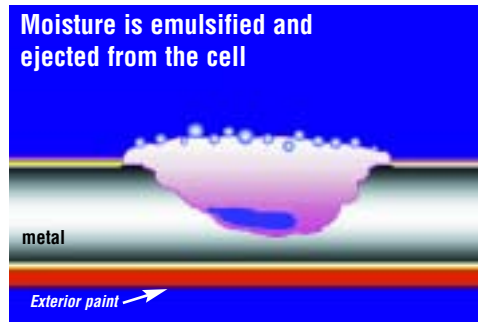
# TECH SPECS:

## CORROSION

**A SIMPLE EXPLANATION:** Corrosion simply stated is a natural phenomenon which destroys most metals by either a chemical or electrochemical reaction. The metal is converted, usually with the help of an electrolyte, into a stable metallic compound such as an oxide, hydroxide, or sulfate. The rate at which metals corrode depends greatly on the environment they are exposed to, and the amount of preventive maintenance they receive. Metals that are exposed to marine atmospheres, moisture, tropical temperatures, and industrial chemical atmospheres have the highest rate of corrosion. The tendency of metals to corrode creates a serious problem in the area of aircraft operation.

## ACF-50 ANTI-CORROSION FORMULA

**HOW IT WORKS:** ACF-50, Anti-Corrosion Formula, is a state of the art, anti-corrosion lubricant compound, specifically designed for the Aero Space Industry. It is an ultra Thin Fluid Film Compound (TFFC) that actively treats metal using advanced polar bonding technology. As seen from the diagrams, ACF-50's synthetic inhibitors and active chemistry penetrates through the oxide deposits (white powder) to the base of the corrosion cell where it emulsifies, encapsulates, and then lifts the electrolyte away from the metal surface. ACF-50 then allows this moisture to evaporate while providing an atmospheric barrier that prevents further moisture contact. With the electrolyte removed the corrosion process is halted. ACF-50 actively penetrates and "creeps" into the tightest seams, lap joints, micro cracks, and around rivet heads, displacing moisture and other corrosive fluids (orange juice, coke, coffee, salt water) in these corrosion prone areas. ACF-50's thin film acts like an "OFF SWITCH" for corrosion remaining effective for up to 24 months.





Being "Pro Active" about corrosion control is the best way to protect your investment. Regular ACF-50 treatments reduce maintenance costs and improve overall flight safety. Lear Chemical's pioneered application methods and specially designed equipment, deliver ACF-50's penetrating fog to all critical aircraft structure. Technicians, at ACF-50 Corrosion Treatment Centers, offer complete airframe applications usually timed to your GA annual. Only ACF-50's advanced corrosion control properties, protect both the airframe and avionics systems. The US government, commercial airlines, fleet operators, and general aviation users have, through years of testing and use, proven ACF-50 delivers tough anti-corrosion protection. ACF-50 has endorsements or approvals from nineteen airframe OEM's and meets industry (AIRBUS, Boeing, Douglas, Mil-Spec) anti-corrosion performance requirements. The FAA also recognizes ACF-50 as a "suitable corrosion preventative compound."



**ACF-50 is available in convenient package sizes to handle your specific application requirements.**

**We offer a choice in application equipment... sized to accommodate your needs**



**HAND HELD SYSTEM**



**STANDARD SYSTEM**



**ACF-50'S PENETRATING FOG**



**LEAR CHEMICAL RESEARCH CORPORATION**

P.O. 1040 Station B. Mississauga, ON L4Y 3W3  
1-800-BLOCK-IT (256-2548) FAX: (905) 564-7077 [www.learchem.com](http://www.learchem.com)