

# PreKote®

Surface Pretreatment



## NON-CHROMATED SURFACE PRETREATMENT

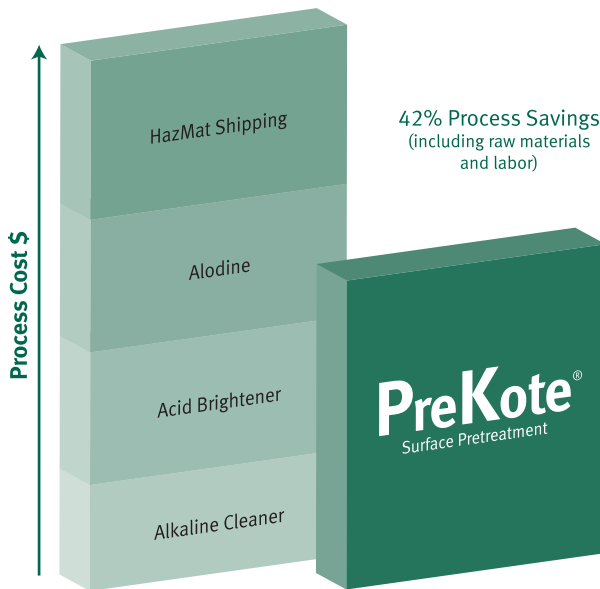
A proprietary and revolutionary formula, PreKote® Surface Pretreatment is a non-chromated surface pretreatment utilizing a safe, hazard-free technology that is flying on over 1,500 United States Air Force aircraft. PreKote® offers superior adhesion, improved paint flexibility, and advanced corrosion protection on painted surfaces, relative to traditional chromate and conversion pretreatments (such as alodine). PreKote® has passed stringent testing by the U.S. Department of Defense, the Boeing Company and other coating industry leaders. By eliminating the need for chromated conversion coatings (such as alodine), acid etches,

solvent washes and other toxic processes, PreKote® can reduce paint preparation time and costs by up to 40%.

PreKote® can be used on a wide range of surfaces including aluminum, steel, magnesium, titanium, CRES, galvanized surfaces, composite and plastic surfaces. Consistent, high performance results are achieved with a variety of paints and primers. PreKote® is non-toxic, non-corrosive, non-flammable, CFC free, ODS free, odor free, and readily biodegradable upon disposal.

## PREKOTE® VS. CHROMATED CONVERSION COATING (SUCH AS ALODINE)

100 Square Feet of Coverage Comparison



## DOCUMENTED SAVINGS IN THE U.S. AIR FORCE

The following are published articles reporting savings the U.S. Air Force has documented when replacing chromated conversion coatings (such as alodine) with PreKote®.

- 30% to 45% savings in man-hours per aircraft (F-16, T-1, T-37 and T-38s)  
Source: ProAct Air Force Center for Environmental Excellence Cross Talk
- \$6,000 saved per F-16, \$1,200,000+ per year at Hill AFB  
Source: Monitor Aeronautical Systems Center 2004
- \$58,000 per year and 141,000 lbs. of chromated hazardous waste  
Source: Sheppard Senator, Sheppard Air Force Base
- One third to one half the amount of water used in process  
Source: U.S. EPA DIU Determination Letter

## PREKOTE® IN THE MEDIA

PreKote® has received nationwide media coverage in Forbes, Aviation Week, Paint & Coatings Industry (PCI) magazine, Plating & Surface Finishing magazine, the Sheppard Senator (Texas), The Monitor (Ohio), PROACT Cross Talk (HQ Air Force Center for Environmental Excellence) and much more. PreKote® is recognized as a performance driven solution that addresses profit driven benefit, cost reduction, environmental performance, and worker health and safety issues related to the use of chromated conversion coatings (such as alodine) in aircraft pretreatment processes.



"From Alodine to PreKote: A P2 Success Story"



"Team improves aircraft painting"



"SAFB painting process leaves far less waste"



"Cleanup"



"Toxic Avenger"



"PreKote: An Alternative Solution to the Use of Chrome Conversion Coatings"

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## ENVIRONMENTAL, HEALTH AND SAFETY REASONS FOR USING PREKOTE®

National determination on PreKote® states:

**“...use of PreKote is not one of the six core Metal Finishing effluent guidelines operations (see 40 CFR part 433.10(a)) and use of PreKote does not automatically trigger categorical industrial user (CIU) status under the Metal Finishing effluent guidelines.”**

—Environmental Protection Agency (EPA) April 2003

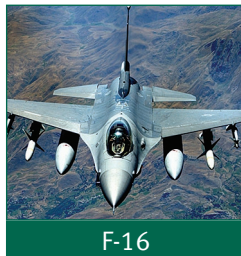
PreKote® eliminates the forced air containment suits required for traditional chromated conversion coatings. Simple rain gear and goggles/face shields are all that is needed.

## U.S. AIR FORCE ADOPTION OF PREKOTE®

The U.S. Air Force Education and Training Command (AETC) has mandated the use of PreKote® for all aircraft. Hill Air Force Base, one of three primary U.S. Air Force maintenance depots, is close to complete conversion to PreKote®. Nearly all F-16s in the U.S. Air Force, as well as several European nations, use PreKote®. Additional approvals for U.S. Air Force aircraft are made regularly.



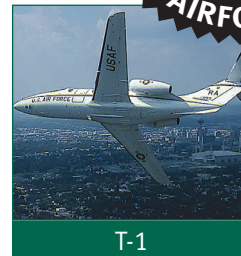
T-37



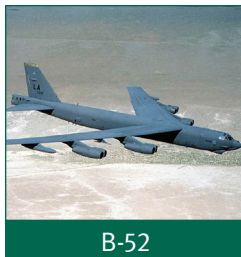
F-16



T-38



T-1



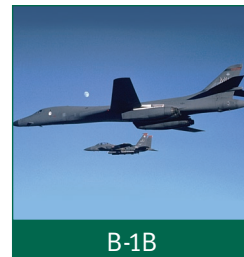
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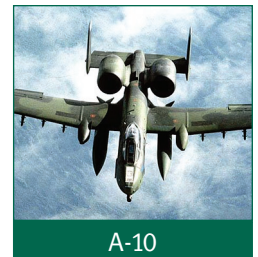
KC-135



E-3



B-1B



A-10