

# PreKote<sup>®</sup>

## Surface Pretreatment

*Simply Superior<sup>™</sup>*



### Pretreat with PreKote<sup>®</sup> and Protect What Matters



Pretreatment with the right product is important for minimizing corrosion, maintaining a premium paint finish, and protecting the exterior surface of any aircraft. But protecting time, money, employee health and safety, and the environments in which we work and live is also important. With PreKote, you get the best protection on every level. Multiple tests conducted by the Department of Defense and other agencies over the course of a decade have shown aircraft exteriors treated with PreKote hold up better over time. If you want the best pretreatment product available, you want PreKote.

PreKote is an all-in-one, ready-to-use product that is applied to surfaces prior to them being primed or painted. The simple, fast process ensures superior paint adhesion, significantly minimizes corrosion, saves users valuable time and money, and reduces water usage. It's chrome-free, non-toxic and non-hazardous which means less PPE is needed and reduces HAZMAT shipping, storage, and disposal costs. And, it's the only product that provides unparalleled protection of aircraft, people, and our planet. That's why we say PreKote is *Simply Superior*.

Most pretreatment products and processes are unnecessarily toxic, hazardous, time consuming and labor intensive, but not PreKote. It was designed specifically to replace both chromate and non-chromate conversion coating systems. With PreKote there's no need for alkaline washes, acid etches, conversion coatings, wash primers, sol-gel products, or solvent wipes.

#### FEATURES & BENEFITS

- Fastest and easiest pretreatment process
- Provides maximum corrosion protection
- Ensures superior paint adhesion and flexibility
- Saves valuable time and money
- Minimizes number of chemicals used
- Reduces overall process time, getting aircraft back into service faster
- Available in both liquid and wipes
- Use on large surfaces, immersion, or touch-ups
- Safest product available
- Non-toxic: Hexavalent chromium-free\*
- Non-hazardous; non-flammable; low VOCs
- Significantly reduces water usage
- Does not automatically trigger CIU status
- Significantly reduces HAZMAT shipping and storage, PPE, and wastewater treatment costs
- Reduces total product and process life cycle costs

#### WORKS ON ANY PAINTABLE OR PREPAINTED SURFACE

- Aluminum
- Composite
- Magnesium
- Steel
- Anodized
- Galvanized
- Plastic
- Titanium

#### PRODUCT DESIGN HISTORY

Pantheon Enterprises, creator of PreKote believes products don't need to be toxic or hazardous to work well. They also believe people shouldn't be forced to work with harmful chemicals when safer alternatives exist.

*\*Did you know pretreatment products often contain hexavalent chromium Cr(VI), a toxic chemical that causes lung cancer? According to OSHA studies, workers exposed to legally permissible levels of Cr(VI) for five or more years increase their risk of lung cancer by as much as 70 percent.*



***Why use anything else when PreKote does it all?***

For more information, contact us today.  
1.888.608.7888 | PantheonChemical.com

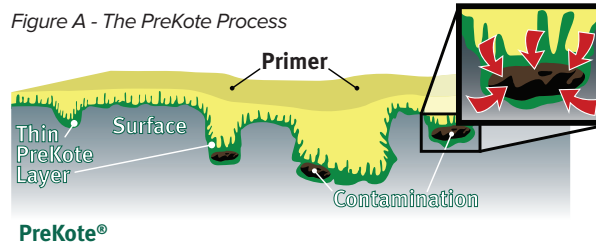


# The Science Behind the Superior Power of PreKote

PreKote offers superior primer and paint adhesion, improved paint flexibility, and advanced corrosion protection on any and all paintable aircraft surfaces. It does this by cleaning microscopic pores and leaving behind a thin layer of film that promotes a stronger bond between the surface and the paint. This superior adhesion is the secret behind PreKote's success.

PreKote's advanced technology actually cleans the surface, and removes contaminants by embedding creating a closer, stronger bond between the surface and coating (See Figure A). This results in fewer paint adhesion failures and better overall corrosion protection (See Image 1).

Figure A - The PreKote Process



## Customer Success Stories:

### Using PreKote Save Valuable Time & Money and Reduces Total Life Cycle Costs

It's important to understand that product cost is only a small portion of the total costs associated with pretreating and painting aircraft. When you consider all costs (labor, water usage, hazmat fees, time the aircraft is out of service, etc.), using PreKote saves users considerable money in total life cycle costs. Below are several examples of documented costs savings.

#### \$ Hill AFB

- Saved \$6,000 per F-16.
- Saved \$1.2M per year in total savings, including reduced labor, water, and HAZMAT fees.

#### \$ Tinker AFB

- Saved more than 4,400 man-hours per year.
- Saved \$120,000 per year in reduced water consumption & treatment fees.

#### \$ Sheppard AFB

- Reduced annual water usage and treatment costs from \$37,000 to \$275, a savings of over \$36,000.

#### \$ Robins AFB

- Saved \$100,000 per C-5.
- Reduced annual water usage by 70% (from 133,333 to 40,000 gallons).

#### \$ Delta Airlines

- Saved an estimated \$1M annually.
- Saved 96 labor hours annually per 737.

## Pretreatment Process Comparison

Regardless of the pretreatment process used, PreKote is the clear winner when it comes to saving time and money. The PreKote process requires use of only one product and the 6-step process is incredibly quick and easy.

Steps	Chromate Conversion Coatings 14 Steps	Gel Technologies 11 Steps	Wash Primers 8 Steps	PreKote® 6 Steps
1	Rinse with Water	Rinse with Water	Rinse with Water	Rinse with Water
2	Apply and Scrub with Alkaline Solution	Apply and Scrub with Alkaline Solution	Apply and Scrub with Alkaline Solution	Apply PreKote® and Scrub
3	Rinse with Water	Rinse with Water	Rinse with Water	Apply PreKote® and Scrub
4	Allow Water to Dry	Allow Water to Dry	Allow Water to Dry	Rinse with Water
5	Mask Sensitive Areas (eg: magnesium/composites)	Apply De-Oxidation or Etching Solution	Clean with Solvent	Inspect for Water Break
6	Scrub with Acid	Rinse with Water	Mix Wash Primer	Allow Water to Dry
7	Rinse with Water	Inspect for Water Break	Apply Wash Primer	Mask and Apply Primer  Why aren't you using PreKote?
8	Allow Water to Dry	Allow Water to Dry	Inspect for Overcoat	
9	Mix Conversion Coating	Mix Gel and Wait (Induction Time)	Mask and Apply Primer	
10	Apply Conversion Coating	Apply Gel		
11	Rinse with Water	Remove Excess (Optional)		
12	Inspect for Water Break	Mask and Apply Primer		
13	Allow Water to Dry			
14	Wipe with Solvent			
15	Mask and Apply Primer			

\*PreKote® is a Ready-To-Use, All-in-One Product



Did you know that for commercial airlines and other aircraft operators the primary financial burden of the re-paint process lies in the aircraft being out of service. A commercial aircraft out of service for one week represents lost revenues exceeding \$400,000. The PreKote process gives airlines an economic advantage, putting aircraft back in service faster where revenue can be generated.

After years of customer research, data has shown our average customer is able to decrease their overall surface pretreatment costs by up to 25%.

- Our all-in-one-product means no need to purchase multiple chemicals such as alkaline washes, acid etches, conversion coatings, sol-gels, solvent wipes, etc.
- Our quick and easy 6-step process saves up to 12 process hours per application. This decreases labor costs.
- Because PreKote requires fewer rinses, customers see a significant reduction of both water and wastewater treatment fees.

**PreKote is available in both liquid and wipes and is distributed by Aviall.**



**For Purchasing:** North America & AOG: 1-800-AVIALL-1  
International Sales: 1-800-AVIALL-3  
Airline Sales: 1-800-AVIALL-9  
International Direct: +1-972-586-1985