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## XZILON®3 APPLICATION INSTRUCTIONS®

### BARE METAL SURFACES

**FIRST TIME APPLICATION:** Review Xzilon®3 DVD

**CAUTION:** When opening the can of Xzilon: Do not remove metal plug!

The best opening method is to puncture the center of metal plug with an awl or small common screw driver. This will allow small amounts of Xzilon to be dispensed and a minimal amount of air to enter the container.

### GENERAL PRACTICES:

- Aircraft Surface Temperature during application should be between 45-90 degrees F.
- Lightly agitate bottle repeatedly during the application process (do not shake the can).
- No visible moisture is allowed during the process.
- Work in a well-lit high-bay hangar for best inspection lighting.
- If applied in direct sunlight working time of material will decrease. Technician will need to apply to a smaller area for workability.
- Keep the Xzilon®3 containers sealed when not in use. The product will attract moisture and harm the formulation effectiveness defeating the molecular adhesion properties.
- Shelf life of an open bottle of Xzilon®3 with the cap securely on the bottle and stored properly is 6 months. Storage temperature is 45-80 degrees F.
- Shelf life of unopened Xzilon®3 is 12 calendar months.
- If Xzilon pours in a cloudy or milky consistency, do not use and discard remaining contents.
- **Keep all material from being exposed to floor and shop contamination.**

### Materials Needed:

- X-20-18, Xzilon®3 formulation for Bright Work applications.
  - **100% Isopropyl Alcohol** (obtain locally or thru a Granitize distributor)
  - **H-32 Cotton Cloths** (6 ea. included in p/n X-3500-18 kit or thru a Granitize distributor)
  - **AC1213WWA**, DuPont Sontara Window Wipes, (one pkg. included in p/n X-3500-18 kit).
- CAUTION:** We require the use of p/n AC1213WWA wipes **ONLY** for the cleaning process of the bare metals and the application of Xzilon. This Sontara Wipe has undergone testing with other wipes and has been found to be the only wipe that satisfactorily applies Xzilon to Bright Work & Painted surfaces. Call Granitize Tech Support if you have any questions.

### Polish Bare Metals

Polish all metals per manufacturer's maintenance manual prior to applying the Xzilon®3.

**CAUTION:** The Xzilon®3 material must be applied within a 12 hour window after completing the polishing operation. No visible moisture is allowed to contact the aircraft!

## Cleaning Polished Metal Prior to Xzilon®3 Application

**VERY IMPORTANT FOR PROPER APPLICATION! All surfaces MUST be clean from all polishing residue!**

- Use 100% Isopropyl Alcohol and Sontara Wipes, p/n AC1213WWA, for this process.
- Remove all residual polishing oxidation residues using 100% Isopropyl Alcohol. Saturate the Sontara Window Wipes in a multi-step, repeated process so that the last Alcohol-Sontara Wipe cleaning shows no polish residue on the cloth. Make sure to change out the Sontara Wipe when all sides are soiled with residue.

## Applying the Xzilon®3 to Bright Work “Bare Metal” Surfaces

**NOTE: WHEN SURFACE TEMPERATURES OF METALS ARE ABOVE 90 degrees F, p/n X-20-15 (lower solids formulation) MAY BE SUBSTITUTED FOR p/n X-20-18 - one extra coat will be needed when using p/n X-20-15 formulation on bare metal surfaces.**

### **Application Steps**

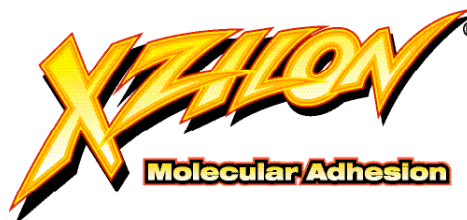
1. Apply a small amount of Xzilon®3 (approximately one thimble full) to a Sontara Wipe.
2. Working an area of 3 ft. sq. or 1 square meter, apply a thin film of Xzilon®3 in a sweeping motion (not circular).  
NOTE: First coat of Xzilon will cause any remaining polishing compound, that was not removed by cleaning with Isopropyl Alcohol, to release from the metal surface and go on to the Sontara wipe. This is normal and you should proceed with the application step #3. **Do not allow the Xzilon®3 to dry!**
3. Wipe the treated area with the H-32 cotton diaper immediately following Step #2 until all “wet” film is buffed off and no longer visible. Rotate the H-32 cloth out as necessary when absorbency decreases. **DO NOT ALLOW THE MATERIALS TO CONTACT SHOP FLOOR!**
4. Repeat steps #1, #2 and #3 until all subject areas are treated. Process is complete when three coats are applied (four coats if using X-20-15).
5. Allow 20 to 35 minutes between coats.
6. When application of Xzilon is complete: allow 12 hour cure time for Xzilon before returning the aircraft to service; note the aircraft log book for all processes completed. Discard used wipes and launder H-32 towels using 2 oz. of XE-3 Zero V.O.C. Degreaser (the “Green” stuff) per large wash load and store towels in a clean location.

After application of the Xzilon®3, the aircraft is placed on its normal phase hour or calendar cleaning cycle. Ninety days for repolish and reapplication is recommended. Re-apply anytime the metal is polished.

NOTE: Operators may choose to apply one - two coats monthly if polish is holding to satisfaction. Clean surface with Granitize Aviation XG-5 Hard Surface Cleaner (the “Blue” stuff) and follow Steps #1 - #4 above.

### To detect the presence of the Xzilon®3 on Bare Metal Surfaces:

Use common 1” wide masking tape in a 6” length. Tear a piece off the roll. Make a lap over one inch tab at the end of both pieces of tape. Firmly press the tape on a subject treated area versus an untreated area. Pull the tape back slowly at a 90 degree angle of the surface. Noticeable ease in resistance will take place on a treated versus untreated surface.



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## XZILON®3 APPLICATION INSTRUCTIONS®

### PAINTED SURFACES

**FIRST TIME APPLICATION:** Review Xzilon®3 DVD

**CAUTION:** When opening the can of Xzilon: Do not remove metal plug!

The best opening method is to puncture the center of metal plug with an awl or small common screw driver. This will allow small amounts of Xzilon to be dispensed and a minimal amount of air to enter the container.

**PERSONAL SAFETY HAZARD:** Work with proper Safety Harnesses and Equipment as required - Xzilon treated surfaces (such as top wing surfaces) can be very slippery to work on and can create a Personal Safety Hazard if not treated with caution. Review shop safety procedures with Safety Manager if there are any questions.

### GENERAL PRACTICES:

- Aircraft Surface Temperature during application should be between 45-90 degrees F.
- Lightly agitate bottle repeatedly during the application process (do not shake the can).
- No visible moisture is allowed during the process.
- Work in a well-lit high-bay hangar for best inspection lighting.
- If applied in direct sunlight working time of material will decrease. Technician will need to apply to a smaller area for workability.
- Keep the Xzilon®3 containers sealed when not in use. The product will attract moisture and harm the formulation effectiveness defeating the molecular adhesion properties.
- Shelf life of an open bottle of Xzilon®3 with the cap securely on the bottle and stored properly is 6 months. Storage temperature is 45-80 degrees F.
- Shelf life of unopened Xzilon®3 is 12 calendar months.
- If Xzilon pours in a cloudy or milky consistency, do not use and discard remaining contents.
- **Keep all material from being exposed to floor and shop contamination.**

### Materials Needed:

- X-20-15, Xzilon®3 formulation for Painted Surface applications **OR**
  - X-20-WO, Xzilon®3 for Painted Surface applications, Wipe-On, Leave-On formulation.
  - XC-11 Spray and Shine (the 'Pink' stuff) - (obtain thru a Granitize distributor)
  - XC-12 Clay Bar (Dark - less aggressive, Light - aggressive; paint quality and level of paint oxidation determines which clay to use) - (obtain thru a Granitize distributor)
  - XH-111 Clay Bar Holder if you are using a rotary polishing motor - (obtain thru a Granitize distributor)
  - XG-5 Hard Surface Cleaner (the 'Blue' stuff) - (obtain thru a Granitize distributor)
  - H-56 spare Synthetic Cloth - (6ea included in kit p/n X-3500-15, or thru a Granitize distributor)
  - AC1213WWA DuPont Sontara Window Wipes (one pkg. included in kit p/n X-3500-15).
- CAUTION:** We require the use of p/n AC1213WWA wipes ONLY for the application of Xzilon - this Sontara Wipe has undergone testing with other wipes and has been found to be the only wipe that satisfactorily applies Xzilon to Bright Work & Painted surfaces. Call Granitize Tech Support if you have any questions.

### **Required Surface Preparation:**

In order to insure a satisfactory application of Xzilon, the surface **must** be pre-cleaned using the Granitize Aviation materials above. (Surface must be free of Grease, Hydraulic and Jet Fuel, etc.) A zone chart may be useful in tracking completed sections if working on larger aircraft.

1. Prepare surface by using the Xzilon® XC-11 Spray and Shine (the “Pink” stuff) by mist spraying a 3' x 3' area.
2. Take the Granitize Aviation XC-12 Clay Bar and rub lightly, in a circular motion, over the wetted area until the surface becomes very smooth revealing low surface tension and hydraulic smoothness. The XH-111 Clay Bar Holder may be used if a rotary polishing motor is used. Re-shape the bar during this operation every 10 minutes if performing this operation by hand. Reshape bar every 3-5 minutes if using a polishing motor. Reshaping the Clay Bar keeps the grit media on the surface of the bar.
3. Repeat steps # 1 and # 2 until all subject surface area has been prepared.
4. Wipe surface with XG-5 Hard Surface Cleaner (the “Blue” stuff) and H-56 Synthetic Cloth.

### **Xzilon®3 Application (Painted Surfaces)**

1. Apply a small amount of Xzilon®3, p/n X-20-15 or X-20-WO (approximately one teaspoon) to the DuPont Sontara Wipe p/n AC1213WWA.
2. Working an area of 3 ft sq, or 1 meter square, apply a thin film of Xzilon®3 in a sweeping motion. **Do not allow the Xzilon®3 to dry!**
3. **When using X-20-15:** Wipe the treated area with a clean H-56 Synthetic Cloth removing all “wet” film immediately following step # 2. You will feel the surface tension decrease as each coat is applied. When the H-56 Synthetic Cloth becomes lightly saturated with the Xzilon®3, rotate cloth surfaces to a clean unused area. Change the H-56 Synthetic Cloth often and as necessary as they become saturated.  
**When using X-20-WO:** Follow step # 2 until visible film has disappeared. No wiping after the application of Xzilon is required.
4. Repeat steps # 1, # 2 and # 3 until all subject areas are treated.  
**When using X-20-15,** treat surface area with three coats of Xzilon®3.  
**When using X-20-WO,** treat surface area with two coats of Xzilon®3.
5. Allow 20 to 35 minutes between coats.
6. When application of Xzilon is complete: allow 12 hour cure time for Xzilon before returning the aircraft to service; note the aircraft log book for all processes completed. Discard used wipes and launder H-56 towels using 2 oz. of XE-3 Zero V.O.C. Degreaser (the “Green” stuff) per large wash load and store towels in a clean location.
7. Recommended re-application of Xzilon to Painted Surfaces is 400 - 500 flight hours, or one calendar year, whichever occurs first.

### **Xzilon®3 Application Painted Surfaces - Re-Coat Application**

1. Pre-clean aircraft using Granitize Aviation XG- 5 Hard Surface Cleaner (the “Blue” stuff) and H-56 Synthetic Cloth.  
**NOTE:** Clay Bar process is not required for re-coat application of Xzilon to painted surfaces.
2. Apply a small amount of Xzilon®3 (approximately one thimble full) to the DuPont Sontara Wipe AC1213WWA.

...continued on pg. 5



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## XZILON®3 APPLICATION INSTRUCTIONS®

### Xzilon®3 Application Painted Surfaces - Re-Coat Application ...continued from pg. 4

3. Working an area of 3 ft. sq. or 1 square meter, apply a thin film of Xzilon®3 in a sweeping motion to a thin liquid film. **Do not allow the Xzilon® to dry!**
4. **When using X-20-15:** Wipe the treated area with a clean H-56 Synthetic Cloth removing all “wet” film immediately following Step # 3. You will feel the surface tension decrease as each coat is applied. When the H-56 Synthetic Cloth becomes lightly saturated with the Xzilon®3, rotate cloth surfaces to a clean unused area. Change the H-56 Synthetic Cloth often, or as necessary as they become saturated.

**When using X-20-WO:** Follow step # 3 until visible film has disappeared. No wiping after the application of Xzilon is required.

5. Repeat steps # 1 thru # 4 until all subject areas are treated with two coats of either X-20-15 or X-20-WO.
6. Allow 20 to 30 minutes between coats.
7. When application of Xzilon is complete: allow 12 hour cure time for Xzilon before returning the aircraft to service; note the aircraft log book for all processes completed. Discard used wipes and launder H-56 towels using 2 oz. of XE-3 Zero V.O.C. Degreaser (the “green” stuff) per large wash load and store towels in a clean location.

### **To detect the presence of the Xzilon®3:**

1. Use common 1” wide masking tape in a 6” length.
2. Tear two pieces off the roll. Make a lap over one inch tab at the end of both pieces of tape.
3. Firmly press the tape on a subject treated area verses an untreated area.
4. Pull the tape back slowly at a 90 degree. angle of the surface. Noticeable ease in resistance will take place on a treated verses untreated surface.

### **NOTE 1:**

**Bright Work Application:** Service difficulty will occur if metals are not thoroughly cleaned to remove all polish residue and oxidation. The result of not performing this step before Xzilon is applied can result in small mineral spots or streaks showing up after visible moisture has been allowed to contact the surface. Aircraft flown close to salt-water environments may also experience this. If this occurs, all bare metals will need to go through a complete repolish to be restored. Call Granitize Aviation Technical Support if you have any questions.

### **NOTE 2:**

**Post-Flight Bright Work Cleaning:** XC-11 Spray & Shine Cleaner (the “Pink” stuff) is the recommended cleaner for post-flight wipe down of Xzilon treated Bright Work.

## Technical & Product Support

### **Factory Tech Support: Granitize Aviation International**

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