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# Revision Transmittal

February 23, 2012

TO: Cessna Distributors, Single Engine Authorized Service Facilities, and Owners of Record  
SUBJECT: Cessna Notification N12-1 Revision 1: Use of Corrosion Inhibiting Compounds

## REASON FOR REVISION

To change Step 5 in the Instructions to show the correct masking requirements.

Miscellaneous changes as required.

## REQUIRED ACTION

Please replace any copy of N12-1 with the attached copy of N12-1 Revision 1 which is printed in its entirety.

## LOG OF EFFECTIVE PAGES

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## Notification

February 23, 2012

N12-1  
Revision 1

### TITLE

USE OF CORROSION INHIBITING COMPOUNDS

### TO

Cessna Distributors, Single Engine Authorized Service Facilities, and Owners of Record

### EFFECTIVITY

All Cessna Model 162 Skycatcher airplanes

### REASON

Cessna recommends the use of corrosion inhibiting compounds to assist in protecting airplanes from corrosion.

**NOTE:** Cessna's warranty excludes coverage of corrosion damage. The use of corrosion inhibiting compounds does not change the warranty in any way.

This notification establishes the requirements for the application of tack-free, soft, film-based corrosion inhibiting compounds to assemblies and assembled aircraft by spray application.

### COMPLIANCE

INFORMATIONAL. This notification is for informational purposes only.

### APPROVAL

Not applicable

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Original Issue: January 31, 2012

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To obtain satisfactory results, procedures specified in this publication must be accomplished in accordance with accepted methods and prevailing government regulations. Cessna Aircraft Company cannot be responsible for the quality of work performed in accomplishing the requirements of this publication.

Cessna Aircraft Company, Customer Service, P.O. Box 7706, Wichita, Kansas 67277, U.S.A. (316) 517-5800, Facsimile (316) 517-7271  
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## CONSUMABLES

The consumable materials that follow are the materials that Cessna recommends be used when using corrosion inhibiting compounds.

NAME	NUMBER	MANUFACTURER	USE
Cor-Ban 23	COR-BAN-23 (U074098)	Cessna Aircraft Company Cessna Service Parts and Programs 5800 East Pawnee PO Box 1521 Wichita, KS 67218	To assist in protecting airplanes from corrosion
Extreme Simple Green Aircraft & Precision Cleaner or approved equivalent*		Commercially Available	To be used for cleaning
Formit-18 Fan	Formit-18	Cessna Aircraft Company Cessna Service Parts and Programs 5800 East Pawnee PO Box 1521 Wichita, KS 67218	To be used for spray application

\*Other Simple Green Cleaners are not approved for use. Refer to the maintenance manual for other approved cleaners.

**NOTE:** Cessna Materials and Processes has also tested and approved Cor-Ban 35, ARDROX AV-8, and ARDROX AV-15. These products may be used at the owner's discretion.

**NOTE:** Cor-Ban 23 or ARDROX AV-8 is preferred for use in areas where high penetration of corrosion inhibiting compound is needed.

**CAUTION:** DO NOT USE ANY OTHER SIMPLE GREEN PRODUCTS OTHER THAN EXTREME SIMPLE GREEN AIRCRAFT & PRECISION CLEANER, AS SOME HAVE BEEN FOUND TO BE CORROSIVE.

## DISCUSSION

1. General Requirements:
  - A. Corrosion inhibiting compounds listed in this notification are one-component. Therefore, mixing is not required.
  - B. Surfaces shall be dry, clean, and free from corrosion at the time of corrosion inhibiting compound application.
  - C. If any functional/operational testing is required after corrosion inhibiting compound application, it shall be completed as defined by the maintenance manual.
2. Equipment Requirements:
  - A. Corrosion inhibiting compound in aerosol form shall be sprayed by extension tube. The Formit-18 extension tube from Zip-Chem Products is recommended.
  - B. Corrosion inhibiting compound in bulk resin shall be sprayed by HVLP spray gun. The MF-3100 Microflex HVLP spray gun is recommended.
  - C. The operator needs to be equipped with proper protective equipment and respiratory protection. A half-face respirator with organic vapor cartridges or full supplied air hood should be used during the application.

3. Facility Requirements:

- A. Spray booth with an air supply system is required. Air velocity should be kept to a minimum without violating OSHA regulations.
- B. Instruments and lubricants used as a part of the air make up system shall not introduce any contaminants into the airstream.
- C. Air temperature in spray booth shall maintain no less than 70°F during the application of corrosion inhibiting compounds.

**CAUTION:** ONLY EXTREME SIMPLE GREEN AIRCRAFT & PRECISION CLEANER OR APPROVED EQUIVALENT MAY BE USED TO CLEAN THE CORROSION INHIBITING COMPOUND APPLICATION AREA.

4. Cleaning Requirements:

- A. Clean the corrosion inhibiting compound application area with a cleaner, listed in this notification. Sanding is not required for adhesion. Direct impingement of cleaner or rinse water spray on wheel bearings or lubricated bearings shall be avoided.
- B. Clean the surfaces to be applied with corrosion inhibiting compound as follows:
  - (1) Apply a cleaner with handheld sprayer. Cleaner pressure shall be lower than 100 psi.
  - (2) Apply a full wet coat of the cleaner to the area of corrosion inhibiting compound application.
  - (3) Allow the cleaner to dwell for 5-10 minutes and scrub with soft-bristled brush (non-metallic).
  - (4) Reapply with cleaner as needed to keep the surface wet.

**NOTE:** If the surface dries before being rinsed, reapply the cleaner.

- (5) Rinse with reverse osmosis or de-ionized water. Water pressure shall be lower than 100 psi.
- (6) Completely dry the areas where corrosion inhibiting compound will be applied.

5. Masking Requirements:

- A. Cover all windows, polished surfaces, brakes, tires, and adjacent areas of possible over spray with paint masking papers or plastics.
- B. Mask the following parts or assemblies with aluminum foil or paint masking tape if they are in the vicinity of the corrosion inhibiting compound application:
  - (1) Movable mechanical components
  - (2) Electrical components, including wires, switches, and sensors
  - (3) Seals.

**NOTE:** Aluminum or stainless steel tubes, sealants, and adhesives are not required to be masked prior to the corrosion inhibiting compound application.

6. Application of corrosion inhibiting compounds:

- A. Spray aerosol with extension tube to minimize over spray. Choose the proper type of extension tube that covers application area without over spray.
- B. Apply the corrosion inhibiting compound in one full wet coat.

**NOTE:** The coverage of corrosion inhibiting compound is seen with slight yellow or amber color.
- C. Some sag/run is acceptable. A spot of significant sag/run needs to be cleaned by MPK (methyl propyl ketone) wiping and the corrosion inhibiting compound shall be reapplied.
- D. Wet film thickness of the corrosion inhibiting compound is approximately 1 to 2 mils for Cor-Ban 23 or ARDROX AV-8 application. Wet film thickness of the corrosion inhibiting compound is approximately 2 to 3 mils for Cor-Ban 35 or ARDROX 15 application.

- E. The coating will be dry enough to be tack-free and de-mask around the application area after two to three hours.

**NOTE:** The aircraft shall remain in paint facility until tack-free.

- F. After de-masking, visually inspect the oleos, actuators, control cables, pulleys, and electrical or mechanical switches.

- (1) If any over spray or penetration of the corrosion inhibiting compound is suspected, thoroughly clean with MPK for removal.

- G. After tack-free, the coating can be cured indoors or outdoors. The minimum cure temperature shall be no less than 50 degrees F.

7. Material Disposal:

- A. Dispose of the aerosol extension tube. This item is intended for one-time use only.

- B. All materials shall be disposed of as hazardous waste.

**NOTE:** Masking materials with corrosion inhibiting compound residue shall be disposed of as hazardous waste as well.

8. Repair Requirements:

- A. A small area of corrosion inhibiting compound can be stripped with an MPK wipe.

**NOTE:** A corrosion inhibiting compound can be reapplied once without stripping on top of previous existing coat after cleaning per the instructions in this notification. However, this approach is not preferred.

- 9. Corban is designed to be used in areas that are not visible, because Corban is tinted.

**OWNER NOTIFICATION**

A. On January 31, 2012, the following message was sent to applicable owners of record in N12-1A.

Dear Skycatcher Owner:

This Owner Advisory is to inform you that N12-1 Use of Corrosion Inhibiting Compounds has been issued.

Cessna recommends the use of corrosion inhibiting compounds to assist in protecting airplanes from corrosion.

**NOTE:** Cessna's warranty excludes coverage of corrosion damage. The use of corrosion inhibiting compounds does not change the warranty in any way.

This notification establishes the requirements for the application of tack-free, soft, film-based corrosion inhibiting compounds to assemblies and assembled aircraft by spray application.

Compliance is INFORMATIONAL: This notification is for informational purposes only.

**NOTE:** This information shall be considered an amendment to the Cessna Manufacturer's Service/Maintenance Manual.

Please contact a Cessna Single-Engine Authorized Service Facility for detailed information and arrange to have Cessna Notification N12-1 accomplished on your airplane.

As a convenience, service documents are now available online to all our customers through a simple, free-of-charge registration process. If you would like to sign up, please visit the [www.cessnasupport.com](http://www.cessnasupport.com) Customer Access link to register.

B. On February 23, 2012, the following message will be sent to applicable owners of record in N12-1AR1.

Dear Skycatcher Owner:

This Owner Advisory is to inform you that N12-1 Revision 1 Use of Corrosion Inhibiting Compounds has been issued.

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