



SUBJ: Aircraft Structures – Alodine Coating

This is information only. Recommendations aren't mandatory.

Introduction

This Special Airworthiness Information Bulletin is to provide awareness of an approved alternative method of compliance (AMOC) to all FAA airworthiness directives (ADs) and previously approved AMOCs that mandate the application of Alodine for all FAA type certificated aircraft, engines and propellers. The AMOC allows the use of the renamed Henkel Bonderite products as an alternative to the former Henkel Alodine products when complying with FAA ADs and previously approved AMOCs.

At this time, the airworthiness concern is not an unsafe condition that would warrant airworthiness directive (AD) action under Title 14 of the Code of Federal Regulations (14 CFR) part 39.

Background

Alodine is a metal protective coating used in many applications including in the aerospace industry. The FAA has issued many ADs and AMOCs that specifically call out for application of Alodine. Many of the ADs that mandate the use of Alodine, do not specifically call out Alodine in the language of the AD, but do require compliance with design approval holder service instructions or service bulletins that specify the use of Alodine in a repair or modification. Henkel, the manufacturer of Alodine, is changing the name of the product from Alodine to Bonderite, but the actual product is unchanged. The unavailability of Alodine will make it difficult to comply with ADs or previously approved AMOCs that require the application of Alodine. This Bonderite AMOC allows the use of the renamed Henkel Bonderite products as an alternative to the former Henkel Alodine products when complying with FAA ADs and previously approved AMOCs.

Recommendations

This SAIB is to notify the aviation community of the availability of this Bonderite AMOC. This AMOC is also posted on FAA's RGL with this SAIB to facilitate access to the AMOC. The FAA recommends you evaluate this AMOC and if you use Alodine in repairs or modifications to comply with ADs or previously approved AMOCs, you can use this AMOC as a part of your compliance with the AD or AMOC.

For Further Information Contact

For information regarding this SAIB, contact Rob Romero, Aerospace Engineer, 10101 Hillwood Parkway, Fort Worth, TX 76177; phone: (817) 222-5102; fax: (817) 222-5960; e-mail: robert.a.romero@faa.gov

For information regarding the AMOC, contact Maureen Moreland, Senior Aerospace Engineer, 3960 Paramount Boulevard, Suite 100, Lakewood, CA 90712-4137; phone: (562) 627-5238; fax: (562) 627-5210; e-mail: maureen.moreland@faa.gov



U.S. Department
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**Federal Aviation
Administration**

**Transport Airplane Directorate
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January 23, 2018

In reply, refer to: 790-18-126

Henkel AG & Company (Henkel)
ATTN.: Mr. Michael Sisson,
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Surface Treatment NA/LAN
32100 Stephenson Highway,
Madison Heights, MI 48071

Reference: 1) Henkel Letter dated December 14, 2017 received via email from Mike Sisson dated January 5, 2018
2) Deviation Memo Number AIR600-17-6D-DM18

Subject: Approval of Alternative Method of Compliance (AMOC) to All FAA Airworthiness Directives (ADs) that Mandate the Application of Alodine for All FAA Type Certificated Aircraft, Engines and Propellers

Dear Mr. Sisson:

The Federal Aviation Administration (FAA) has received reference 1) requesting an AMOC to all FAA ADs that mandate the application of Alodine for all FAA type certificated aircraft. Alodine is a metal protective coating that is used in many aerospace applications. We understand that Henkel has changed the name of the product from Alodine to Bonderite, but the actual formulation of the product is unchanged. There are many FAA ADs and previously approved AMOCs that specifically call out for the application of Alodine.

You have supplied the following table which indicates the previous Alodine product name, and the new Bonderite product name.

Former Henkel Product Designation	Current Henkel Product Designation
Alodine 600	Bonderite M-CR 600 Aero
Alodine 1132 Touch-N-Prep Pen	Bonderite M-CR 1132 Aero
Alodine 1200	Bonderite M-CR 1200 Aero
Alodine 1200S	Bonderite M-CR 1200S Aero
Alodine 1201	Bonderite M-CR 1201 Aero
Alodine 1500	Bonderite M-CR 1500 Aero
Alodine 1600	Bonderite M-CR 1600 Aero
Alodine 1660	Bonderite M-AD 1660 Aero
Alodine 600 RTU	Bonderite M-CR 600 RTU Aero
Toner 22	Bonderite M-AD 22 Aero

FAA Order 8110.103B, paragraph 3-10.c.(1) and (2) require an AMOC approval response to list the AD number, specific paragraph(s) of the AD, and make and model designations to which the AMOC applies. Reference 2) approved a deviation to the order to allow the approval of one global AMOC to apply to all applicable ADs and previously approved AMOCs for the re-branding of Alodine to Bonderite.

Your proposal to use the current Henkel product designation as an alternative to the associated former Henkel product designation as listed in the above table provides an acceptable level of safety. We approve the use of conversion coating with the above listed current Henkel product designation as an alternative to the associated former Henkel product designation when conversion coating application is required by any paragraph of any AD for all FAA type certificated aircraft, engines and propellers and for all previously approved AMOCs.

The following limitations apply to this AMOC:

- This approval is applicable to all FAA type certificated aircraft, engines and propellers for any AD or previously approved AMOC that references the application of Alodine.
- This FAA AMOC is transferable with the aircraft, engine or propeller.
- Before using this AMOC, notify your appropriate principal inspector, or lacking a principal inspector, the manager of the local flight standards district office/certificate holding district office.

The preceding paragraph also applies to any applicable foreign-registered aircraft upon transfer of the aircraft to the U.S. registry if compliance with the AMOC has not been accomplished.

- All provisions of the ADs other than that specifically referenced above remain fully applicable and must be complied with accordingly.
- This AMOC only applies to FAA ADs. The FAA does not have the authority to approve this as an AMOC to any AD issued by another civil aviation authority (CAA). Approval of an AMOC to another CAA's AD must come from that CAA.

Should you have any questions regarding this approval, please contact Ms. Maureen Moreland by phone at (562) 627-5238, or by email at maureen.moreland@faa.gov.

Sincerely,



Lance T. Gant
Director, Compliance & Airworthiness Division
Aircraft Certification Service

cc: EASA: ads@easa.europa.eu
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