



# AFCPCO FLASH 23-01

16 February 2023 (Corrected 21 February 2023)

## SUBJECT: MIL-PRF-85285 Revision “F” Updates – Isocyanate-Free and Single Component Topcoats

In May 2022, NAVAIR published Revision “F” of MIL-PRF-85285 (PERFORMANCE SPECIFICATION - TOPCOAT, AIRCRAFT AND SUPPORT EQUIPMENT) which now includes isocyanate-free topcoats and their associated qualification requirements. Compatibility testing was performed by NAVAIR for isocyanate-free coatings under ESTCP Project # WP201506.

The Air Force Corrosion Prevention and Control Office (AFCPCO) is in the process of updating Technical Orders 1-1-8 (APPLICATION AND REMOVAL OF ORGANIC COATINGS, AEROSPACE AND NON-AEROSPACE EQUIPMENT) and 35-1-3 (CORROSION PREVENTION AND CONTROL, CLEANING, PAINTING, AND MARKING OF USAF SUPPORT EQUIPMENT (SE)) to reflect the isocyanate-free language in the updated MIL-Spec. These Technical Orders are also being updated to reflect that isocyanate-free topcoat, specifically Class NH and Form S, as the **ONLY** single-component MIL-PRF-85285 topcoat authorized for use on USAF assets when approved by the cognizant engineering authority.

Additionally, unauthorized single component polyurethane topcoats have been observed in use in the Field. Even though these materials are procured through the supply system, they do not adhere to the currently authorized MIL-PRF-85285, Type I/IV topcoat requirements. Our office is working with DLA to halt procurement of these unauthorized materials under a MIL-Spec CAGE code but ask that Field Units/System Program Offices/Wing Corrosion Managers ensure these materials are not accepted or utilized.

The following are examples of, but are not limited to, what is being procured incorrectly and is not authorized for use on USAF assets:



Please note that two-component polyurethane aerosol cans, which you must push the plunger on the bottom of the can to activate, are still authorized.

For reference, all MIL-PRF-85285 approved coatings, and associated manufacturers, can be found on the following DLA Qualified Products List: <http://qpldocs.dla.mil/search/parts.aspx?qpl=2680>

If you have any questions on this action or require any assistance, please contact AFCPCO at [afcorr@us.af.mil](mailto:afcorr@us.af.mil), DSN: 468-3284, or Comm: (478) 926-3284.