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Protecting Military Aircraft

The United States Air Force is focused on reducing the cost of maintaining aircraft and is pushing for the implementation of Advanced Performance Coatings (APC) for use on the exteriors of their aircraft. These coatings exceed Mil-PRF-85285D performance requirements in terms of weathering resistance and cleanability.

The ANAC Eclipse® PD-5000 Advanced Military Topcoat has been submitted for qualification to Mil-PRF-85285D. It is already approved to Northrop Grumman MS-591 specification. It does not have the weathering sensitivity to primer selection that other APC topcoats have shown to have in USAF laboratory testing. To validate our APC claims, an F-16, parts of a C-130, and an F-15 have been painted during the Mil Spec qualification process for in-service flight tests.

The F-15 had Eclipse PD-5000 applied side by side with the baseline APC coating for in-service performance demonstrations of the topcoats.

10P20-12 is a great success as the exterior moldline primer for the C-17 and is qualified to DMS-2104. It was shown in

USAF laboratory testing that 10P20-12 greatly enhanced the weathering performance of the standard APC product currently in use. ANAC has now submitted this primer for qualification to Mil-PRF-23377H. The maintainers of the C-17 and others will now have the primer choice to achieve the same weathering performance as has been achieved on the C-17.

ANAC is also participating with Hill AFB on the evaluation of a total nonchrome repaint system using the proven nonchromated surface pretreatment, X-It Prekote from Pantheon Chemical, ANAC Aviox CF primer and Eclipse PD-5000 topcoat. Aviox CF is a proprietary system to ANAC and is novel in that it is neither epoxy nor urethane based. The system has successfully completed the first set of hanger trials at Hill AFB. Supporting this trial is the fact that this primer has been used in service for over seven years with great success. The Royal Dutch Air Force has applied Aviox CF to an F-16 in early 2002 and will be evaluating its performance.



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