

In-Flight

December 2015

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Desothane® HD/CA9008 Qualified at Airbus

PPG Aerospace has a long and distinguished history of bringing innovative coatings technologies to the aerospace industry. We develop solutions to help our customers lower their operating costs by reducing aircraft weight, decreasing paint cycle times, and increasing the lifecycle and durability of their coatings finishes. Following in this tradition, PPG Aerospace has introduced the next evolution in exterior paint technology: Desothane® HD/CA9008 basecoat clearcoat.

Desothane® HD/CA 9008 basecoat clearcoat consists of a heavily pigmented basecoat that provides full color with less paint than conventional high-solids paints, helping to decrease the cycle time of the paint process and the coatings weight on the aircraft. A final clearcoat layer is applied over the basecoat that extends service life up to 60%, reducing the frequency of revenue flights taken out of service for repainting. Additionally, this clearcoat layer improves buffability and achieves a smoother, high-gloss surface that is easier to clean. Desothane®

HD/CA9008 basecoat clearcoat system is also easy to apply, thus minimizing instances of costly rework.

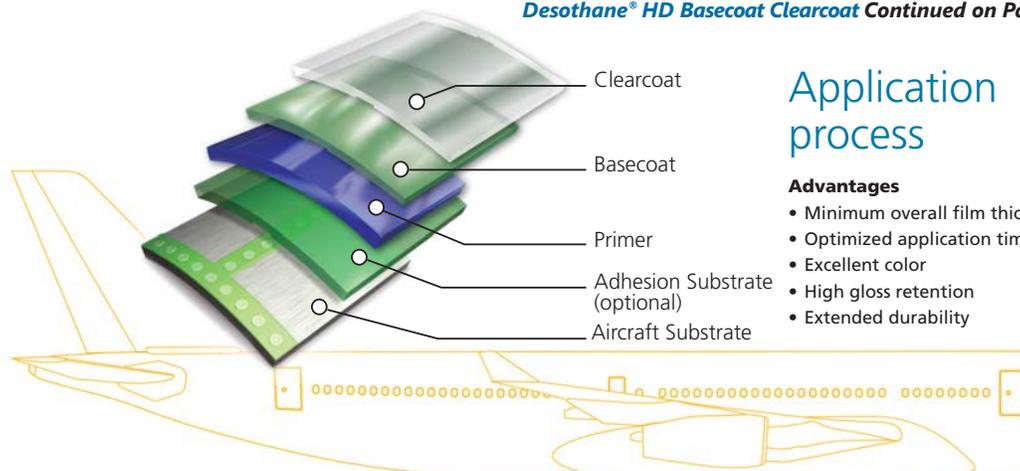
Desothane® HD/CA9008 basecoat clearcoat is now qualified at Airbus for application as a topcoat system with chromate-free Desoprime™ CF/CA 7049 primer that Airbus has long used. Desothane® HD/CA9008 basecoat clearcoat is also qualified at Airbus for use with PPG Aerospace's chrome-free, selectively strippable system, comprised of F565 intermediate coat applied over the primer allowing repainting without removal of the primer to the substrate.



"We worked closely with Airbus to demonstrate the productivity and appearance advantages of the PPG basecoat-clear-

coat system," said Dirk Thelen, PPG key account director for Airbus and business manager EMEA (Europe, Middle East, and Africa) south region. "Airbus wanted to offer its customers advanced coatings technology that many airlines already use in their own maintenance operations. For airlines, having Airbus use the same coatings system on

Desothane® HD Basecoat Clearcoat Continued on Page 2



Application process

Advantages

- Minimum overall film thickness
- Optimized application time
- Excellent color
- High gloss retention
- Extended durability

new aircraft that they use in maintenance is a significant benefit.”

Desothane® HD/CA 9008 basecoat-clearcoat is also part of a growing number of PPG Aerospace chromate-free systems qualified to SAE International’s Aerospace Material Specification 3095A for airline exterior paint. Over 250 aircraft have been successfully painted with PPG basecoat-clearcoat systems.

Desothane® HD/CA9008 basecoat clearcoat offers greater durability, lighter weight, ease of application, superior aesthetics, and is now OEM-qualified. PPG Aerospace is pleased to introduce this next generation technology and invites you experience its benefits in your operation.

Please contact your local PPG Aerospace sales representative for more information.

PPG Aerospace Welcomes the Cuming Microwave Team!

On July 1, 2015, PPG Aerospace acquired Cuming Microwave Corporation and its wholly-owned subsidiary, Cuming-Lehman Chambers, Inc. Cuming Microwave manufactures specialty materials and coatings utilized in applications requiring the attenuation or absorption of radar and microwave radiation. Cuming-Lehman Chambers produces free space absorbers and anechoic chambers for EMC, FCC/EC compliance, antenna testing and compact and nearfield ranges for electromagnetic test purposes. Cuming Microwave’s capabilities and technologies complement the existing PPG Aerospace business, particularly the PPG Aerospace Coatings platform.

Cuming Microwave is a strong supplier in the Aerospace industry. With key positions on important military programs, the product portfolio developed and produced by Cuming Microwave provides additional dimensions to PPG Aerospace’s capabilities. The Cuming Microwave team has demonstrated very strong support and innovative solutions for its customers globally which has driven outstanding growth for the business. Their product line expands across several sectors of the Aerospace industry, similar to the PPG Aerospace products and services offered through PPG’s global Application Support Center network. The combination of Cuming Microwave and PPG Aerospace will continue to broaden and strengthen the set of solutions that we can provide to our customers.

The Cuming Microwave team is a talented, creative, and highly responsive organization. Mike Kocsik, who has been the General Manager of the Cuming Microwave businesses, will continue to lead the operations and the sites in Boston, MA. In addition, he will lead the Cuming-Lehman Chambers segment of the business which includes the development, manufacture, and supply of free space absorber products utilized within the anechoic chambers. This segment also includes the sales and design office located in Chambersburg, PA. Cindy Manning leads the Microwave Materials segment of the business and has a strong history in this product line. Mike Heafey leads the Aerospace Materials segment which is well-positioned in the Aerospace Military industry. Sally Neher, Business Manager of the PPG Aerospace Application Support Center in Philadelphia, is leading the integration efforts.

The Cuming Microwave and PPG Aerospace team is focused upon advancing the strengths of both organizations to deliver greater value to our customers. As the team moves forward, our customers will see growing benefits of the integration of these two aerospace leaders. We look forward to increasing our support to our customers and delivering the value in products and services to meet our customers’ needs.



Mike Kocsik



Cindy Manning



Mike Heafey



Sally Neher



- Desothane® HD basecoat clearcoat used to paint more than 250 aircraft
- Desoprime™ chrome free exterior primer applied to more than 1000 aircraft
- PPG Aerospace introduces first chrome free wash primer
- Aerocron™ electrocoat primer provides significant cost and weight savings
- PPG Aerospace focuses on environmentally friendly products

EN ROUTE

By Mark Cancilla
Global Director, Aerospace Coatings

2015 has been a very active and exciting year for the PPG Aerospace Coatings business. The acquisition of Cuming Microwave and the qualification of our Desothane® HD/CA9008 basecoat clearcoat at Airbus, both detailed in this publication, have driven significant activity. The integration of the Cuming Microwave and PPG Aerospace businesses is moving along very well. And interest in our Desothane® HD basecoat clearcoat continues to increase as customers recognize its benefits which include increased application efficiency, excellent application robustness and reparability, and terrific hiding power, resulting in low film thicknesses and reduced weight. With our qualification to the AMS3095 standard, PPG Aerospace has been supplying Desothane® HD basecoat clearcoat into the aftermarket for over 5 years with more than 250 aircraft successfully painted. During this extended period, our long-term customers have seen the excellent service life demonstrated by our product, including high gloss retention and robust adhesion.

The aerospace industry's emphasis to replace chrome-based products is a driver in our technology portfolio. The PPG Aerospace Coatings business continues to focus upon the advancement of chrome free, corrosion-inhibiting products across several of our product lines:

- The introduction of Desoprime™ CF/CA7502 and CA7502E chrome free exterior primers over 5 years ago, with applications on well over 1000 aircraft, has given PPG more experience in the manufacture, supply, and performance evaluation of chrome free primers than any other aerospace coatings supplier.
- During the past year, PPG Aerospace introduced the first chrome free wash primer system in the industry, Desoprime™ CF/CA7530 and CA7065, which were qualified to AMS3095.
- PPG also introduced Desoprime™ CF/CA7521 which can be used as an exterior and structural primer.
- PPG Aerospace continues to advance the industry with the growth of our Aerocron™ electrocoat primer which provides unique value to our customers. Those customers who have integrated this product line are reporting significant component manufacturing cost and weight savings while achieving superior application efficiencies as compared to spray-applied systems.
- With our acquisition of Deft, Inc. in 2013, we focused on utilizing key Deft technologies to launch our chrome free, corrosion-inhibiting pretreatment product line. The Deft product line also includes important chrome free, corrosion inhibiting products in both water-reducible (44GN098) and solvent borne (02GN084) resin systems.

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And our Research and Technology organizations are focused on the development of environmentally friendly products that comply with the various internationally mandated environmental regulations. We will continue to develop new technologies and products that eliminate chrome in the industry.

The PPG Aerospace Coatings business is very active in the development of solutions that deliver value to you, our customers. Your local PPG Aerospace sales representative would be happy to update you on our latest activities and status. As always, we look forward to your input as this is the most critical element of our efforts.

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