

Chromate-free paint systems

Aerospace Coatings

AkzoNobel's legacy in anti-corrosion aerospace coatings is the cornerstone of our global leadership position. In 1996, our unrivalled track record in chromate-free coating systems began, and we have been refining our products ever since, providing new alternatives to chromate-based exterior systems with exceptional results:

1996	2006	2010	2014	2019
Introduction of Aviox CF Primer , the industry's first total chromate free primer for exterior finishing in maintenance applications.	Replacement of a chromate-based refresh primer with a chromate-free alternative , reducing the overall toxicity levels in anti-corrosion paint systems.	Introduction of the first ever lithium-based primer Aerodur 2111 and magnesium-rich Aerodur 2100 MgRP for unrivalled corrosion protection.	Debut of Aerodur HS 2118 ; a cutting-edge lithium-based primer compliant with the AMS 3095A specification with the ability to replace washprimer systems.	Qualification of Aerodur HS 2121 CF Primer , our next generation exterior decorative and selectively strippable system at Airbus.

With each innovation, our chromate-free products have become better and better, as we develop, manufacture and sell coatings for application by OEMs and in maintenance facilities.

Our products provide outstanding protection and appearance without compromising on safety and sustainability, so when it comes to chromate-free alternatives, there's no substitute for our decades of experience.

Why go chromate-free?

Hexavalent chromium is the most commonly used corrosion inhibitor for aircraft, however it is subject to increasing regulations due to environmental and health and safety concerns. There has never been a better time to look for alternative solutions, future-proofing your operations while helping to make the industry safer. With our world-class expertise and continuous pioneering research, you can go chromate-free with confidence, safe in the knowledge that your aircraft's coatings will offer the best in corrosion protection.

As the #1 leader in sustainability within the chemical industry, we have an unwavering commitment to supporting a liveable world environment and finding sustainable opportunities where none seem to exist.



What chromate-free products do we offer?

We offer several chromate-free solutions for exterior application:

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Aerodur 2100 MgRP	Aerodur 2111	Aerodur HS 2118	Aerodur HS 2121
A magnesium-rich coating that works through the unique cathodic protection mechanism, safeguarding aluminum just as zinc safeguards steel. Meeting the AMS 3095A and military specifications, 2100 MgRP has exceptional performance in corrosion protection, outperforming chromated systems under certain conditions.	Using our patented lithium-based technology, 2111 provides active protection through the same leaching process as chromate-based primers. It is optimized for Boeing specifications.	Following 2111, HS 2118 was tailored to the AMS 3095A specification. Consistent performance with direct-to-metal application and all pre-treatments makes it our most flexible product for maintenance application.	Aerodur HS 2121 is the latest chromate-free exterior refresh primer developed for Airbus and airlines (applied at final assembly stage). Based on lithium technology, it offers a number of key benefits, including improved adhesion, appearance, and layer thickness savings.

What's next for our chromate-free range?

We have an ongoing commitment to providing chromate-free solutions in the aerospace industry, and that means an ongoing commitment to working with you. For decades, we have been partners in ensuring the sustainable performance of aircraft, generating proven performance and transparent results so you can trust in the reliability of our coatings.

Our next chromate-free innovation will be a durable, high-performance coating for aircraft structures and repairs. It will draw upon our proven and trusted primer technology, coupled with the latest advancements in corrosion inhibition developed and patented by AkzoNobel, to deliver sustainable protection, superior robustness and ease of application.

Our global leadership in corrosion protection is enhanced by decades of experience and partnerships with key OEMs, first-class universities, and research institutes. With our unrivalled skill, technical knowledge and global support network, AkzoNobel remains the ideal partner to support you in developing chromate-free systems for your aircraft.

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AkzoNobel has a passion for paint. We're experts in the proud craft of making paints and coatings, setting the standard in color and protection since 1792. Our world class portfolio of brands – including Dulux, International, Sikkens and Interpon – is trusted by customers around the globe. Headquartered in the Netherlands, we are active in over 150 countries and employ around 35,000 talented people who are passionate about delivering the high performance products and services our customers expect.

For more information please visit www.akzonobel.com.

AkzoNobel Aerospace Coatings is an ISO 9001, ISO 14001 and AS9100 certified company.

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