



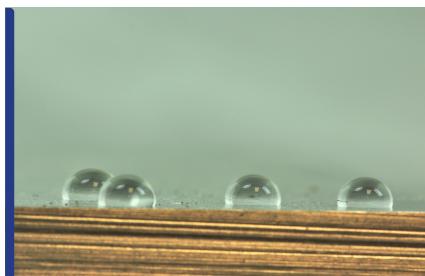
APW100 Water-Based Corrosion Protection

PRODUCT SHEET

AeroPel is a next-generation corrosion protection solution designed for aircraft and ground equipment operating in demanding environments. Using a lightweight nanocomposite surface treatment, AeroPel forms a durable protective barrier that repels moisture and contaminants, which are key drivers of corrosion and maintenance burden. The result is extended asset life, reduced maintenance cycles, and improved operational readiness in harsh conditions.

WHAT IS AEROPEL?

- Advanced "Nanocomposite Protective Layer" (NPL):** A water-based, high-performance coating designed to deliver durable, long-term corrosion protection.
- Comprehensive protection:** Shields aircraft exteriors, airframe structures, and internal components from corrosion damage.
- Versatile application:** Can be applied over primers, as a finishing layer over topcoats, or directly onto conversion-coated or bare metals.
- Performance-driven design:** Repels moisture (omniphobic), reduces fluid buildup, and lowers surface friction for long-lasting effectiveness.



NPL water repellency



KEY BENEFITS

- Low-VOC, chrome-free formulation
- Repels moisture from substrate
- Fast cure time for rapid deployment
- UV stable & functional in extreme environments, from -51°C to 204°C (-60°F to 400°F)
- Ultra-lightweight — approximately one-third the dry weight of standard Corrosion Inhibiting Compounds (CICs)
- Made in USA of domestic and imported components

Salt Spray Comparison at 1,500 Hours



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USE CASES

United Airlines, Boeing 737 (2019-Present)

- Applied to the outboard wing lower panel for Guam fleet.
- Since application, no signs of corrosion in 2+ years.
- Previous corrosion remediation would occur every 60-90 days.



Houston Military Museum, CH-46 and HH-46 (2022-2023)

- Applied to the leading edge of rotor blades.
- Improved erosion resistance of the topcoat.
- Results showed no re-application of topcoat required.



Privately Owned, Tora "Zero" Replica (2022)

- Applied to wing leading edges, mid-fuselage, and propeller cone to mitigate effects of bug impact, engine exhaust stain and erosion protection of existing exterior paint.
- Results showed easy bug impact cleaning with AeroPel coating still intact after flight operation.
- Since application, no signs of corrosion in 3+ years.



Hawaiian Airlines, Boeing 717 (2016-2017)

- Initial version of AeroPel was applied to the steel fasteners on the leading edge of the horizontal stabilizer to mitigate galvanic corrosion.
- Results showed no signs of corrosion over 8 months of flight testing across Hawaiian Islands.

