

# Powder Coating Qualification Update

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# Overview

- **Background**
- **Current Progress**
- **Path Forward**

# Background

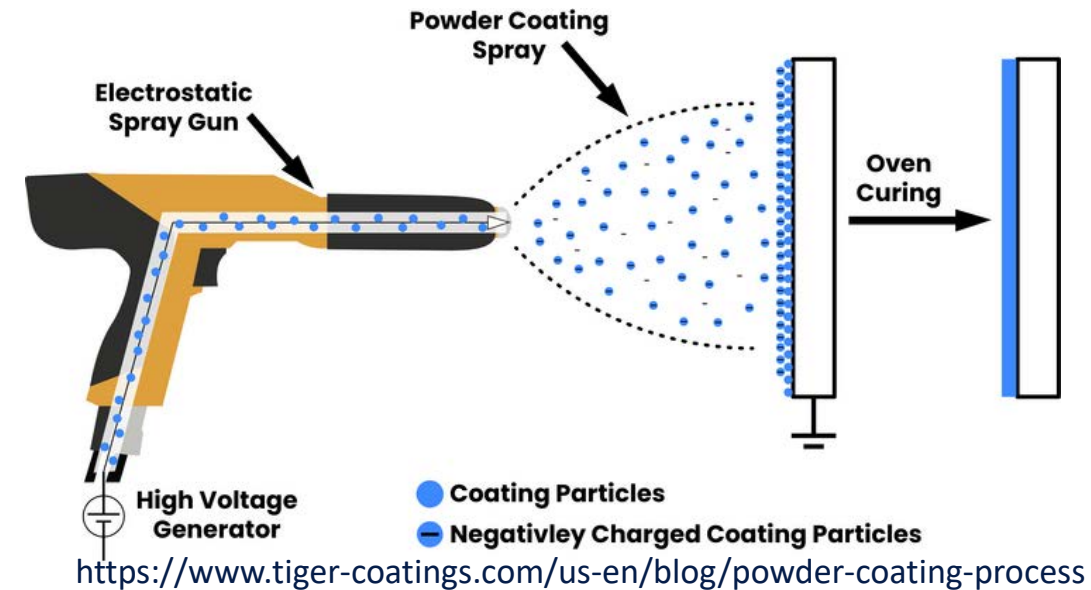
- **AMS3143 (Powder Coating Material Specification)**
  - Rev. D published in May 2025
  - Revisions to performance requirements informed by 1<sup>st</sup> round of qualification testing
- **Several requirement changes need additional performance data to qualify one product**
  - Visual comparison of specimens under D65 lighting
    - Color
    - Weathering Resistance
    - Water Resistance
  - Strippability testing with non-methylene chloride-based product called by TO 1-1-8
- **Objective: perform testing to fill gaps in data so that vendors can submit products to Qualified Products List (QPL)**



<https://www.just-normlicht.com/us/articlelist.html?id=36>

# Current Progress

- Four out of eight vendors from original qualification testing provided samples to UDRI
- Test specimens prepared by UDRI
- Testing started in early November 2025
  - Color
  - Water Resistance
  - Weathering Resistance
    - Xenon-arc exposure for 3000 hours
  - Strippability
- Three vendors are being tested for Fluid Resistance, Flexibility, and Skydrol Resistance due to failures during AMS3143 testing



# Path Forward

- **Complete testing by April-May 2026**
- **Draft test report and submit to AFCPCO for review**
- **AFCPCO will provide test data to vendors**
  - Vendors with qualifying products will submit data to SAE's G-8 Qualified Products Group (QPG)
  - Vendors with products slightly outside requirements will be provided recommendation to reformulate and facilitate testing
- **Any products reviewed and approved by G-8 QPG will be added to AMS3143 QPL**

# Powder Coat Specification Working Group Members

- Nora Tesone (UDRI)
  - Jerry Brown (AMS G-8, Lockheed Martin)
  - Rick Pomykala (AMS G-8, Hentzen Coatings)
  - Logan Reindl (AMS G-8, Hentzen Coatings)
  - Casey Jones (AFLCMC/EZPT-CPCO)
  - Zachary Cornett (AFLCMC/EZPT)
  - Juan Font-Rivera (AFLCMC/WNZ)
  - Stephen Davis (AFLCMC/WNZ)
  - Richard Dempsey (WNZE)
  - Joseph Santamaria (Navy)
  - William Chandler (Navy)
- Thanks for the participation and diligence in working the powder coating specifications.

# Questions?

- **Casey Jones**

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