

Mil-Spec

Protection from radioactive, chemical, and biological agents



MEETING THE DEMAND FOR QUALITY

Mil-Spec components require superior corrosion resistance, edge coverage, and protective throw power. E-coating is ideal for serving these needs with excellent adhesion to a variety of substrates and is a great base for CARC topcoats.

Serviceable Mil-Spec components include:

- Vehicles and Cabs
- Frame Rails
- Wheels
- Body Panels



Protective coatings that meet military specifications and are designed to protect critical equipment from hazardous agents

AZZ Surface Technologies is a leading provider of chemical agent resistant coatings (CARC) meeting military specifications (Mil-Spec) established by the U.S. government. Our high-volume production capacity enables us to meet the fast turnaround times often required by the defense industry, and our capabilities include large format and heavy equipment parts.

CARC-certified in a wide variety of specifications

In the state of Texas, AZZ Surface Technologies is one of just a few CARC-certified suppliers. Our CARC is typically formulated from epoxy or polyurethane and rigorously tested to provide the highest level of protection against radioactive, chemical, and biological warfare agents as well as the corrosive, decontaminating chemicals used to wash down military equipment.

Multiple locations provide flexible capacity with on-time deliveries

AZZ operates a network of facilities serving North America with highly automated, high capacity operations, which have earned a significant number of certifications and accreditations for meeting the stringent quality standards of the industries we serve.



Mil-Spec



An array of coating and plating specs for the military

If you have a ferrous or non-ferrous substrate, AZZ Surface Technologies has a coating system that will meet or exceed your performance expectations. We possess the ability to meet a large variety of coating and plating specifications for the military and defense industries, including but not limited to:

Cleaning

Ferrous Metal (Steel):

- TT-C-490E

Non-Ferrous Metal (Aluminum):

- TT-C-490E

Pre-treating

Ferrous Metal (Steel):

- MIL-C-8514 (wash primer)
- DOD-P-15328 (wash primer)

Non-Ferrous Metal (Aluminum):

- MIL-C-8514 (wash primer)
- DOD-P-15328 (wash primer)
- MIL-DTL-5541 (chemical conversion–TCP)
- MIL-A-8625 (anodize)

Priming

Ferrous Metal (Steel):

- MIL-DTL-53022
- MIL-DTL-53030 (water reducible)

Non-Ferrous Metal (Aluminum):

- MIL-DTL-53022
- MIL-DTL-53030 (water reducible)

Top Coating

Ferrous Metal (Steel):

- MIL-PRF-22750
- MIL-DTL-53039
- MIL-DTL-64159 (water)

Non-Ferrous Metal (Aluminum):

- MIL-PRF-22750
- MIL-DTL-53039
- MIL-DTL-64159 (water)

The key to ensuring a quality, consistent finish

Surface preparation is critical to attaining a high-quality finish, whether it be powder or wet coating. AZZ Surface Technologies has extensive expertise in sandblasting, which efficiently and effectively smooths rough edges and repairs surface blemishes. Our sandblasting capabilities extend to parts as large as 40 feet in length, and our quality control measures, in accordance with our ISO 9001 certification, ensure an optimal surface for comprehensive and consistent coating.

One aspect of our quality control is the daily stripping of the hooks, racks, fixtures, and steel parts used in our operations. The process ensures the proper grounding and consistent coverage of the parts to be coated the following day. The stripping of organic paint and powder coating from parts and fixtures is a service we also offer to our customers.

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