

# UNCOMPROMISED PROTECTION

ENHANCED CORROSION PRIMERS  
FOR MILITARY APPLICATIONS



**SHERWIN-WILLIAMS®**



# ENHANCED CORROSION PRIMERS SPEC UPDATE

The military is specifying the use of Type IV enhanced corrosion primers for MIL-DTL-53022, eliminating Type II and Type III primers from the specification.

## FAST-DRYING ENHANCED CORROSION PRIMERS FROM SHERWIN-WILLIAMS

Original equipment manufacturers (OEMs) and their tier suppliers demand corrosion inhibiting primers that provide uncompromised protection and flawless performance. Sherwin-Williams offers a comprehensive portfolio of epoxy primers formulated to withstand the harsh operating environments military equipment must endure. Our TYPE IV primers meet or exceed the specification MIL-DTL-53022, and dry within 4-8 hours include:

### ENHANCED CORROSION MILITARY PRIMERS

PRODUCT	E90A234/V93V236	E90A233/V93V236/R7K7	E90A228/V93V235*	E90A229/V93V234
Specification	MIL-DTL-53022	MIL-DTL-53022	MIL-DTL-53022	MIL-DTL-53022
Specification Type	Type-IV	Type-IV	Type-IV	Type-IV
Specification Class	Class U	Class L	Class L	Class L
VOC	<2.1 lb/gal	<2.1 lb/gal	<2.1 lb/gal	-0 lb/gal
Qualification Reference	Pending	Q2272	Q2272	Q1915
Mix Ratio	6:1	4:1:2	4:1	4:1
Protection Level - ASTM B117*	>1000 hr	>1000 hr	>1000 hr	>1000 hr
Protection Level - GMW14872*	>30 cycles	>30 cycles	>30 cycles	>30 cycles
Set-to-Touch Time	30 min	30 min	30 min	60 min
Dry Hard Time	3 hr	3 hr	3 hr	5 hr
Dry Through Time	4 hr	4 hr	8 hr	8 hr

\*Available in Aerosol (when air dried at 70°F, 50% RH)



Marine Expeditionary Force  
Combat Service Support Company FEX  
Photo by Lance Cpl. Dalton Swanbeck

**TYPE IV PRIMERS FROM OTHER SUPPLIERS CAN BE SLOW TO DRY, INCONSISTENT FROM BATCH TO BATCH AND MAY REQUIRE ADDITIONAL PROCESS TIMES – DRIVING UP MATERIAL COSTS.**



U.S. Army Central  
Bright Star 18 Combined Arms Live  
Fire Exercise Rehearsal  
Photo by Staff Sgt. Matthew Keeler

## FAST-DRYING PRIMERS

Advanced technology by Sherwin-Williams enables industry-leading dry times.

### E90A234/V93V236

As a HAPs-free two-component epoxy primer, E90A234/V93V236 hard-dries in 3 hours, demonstrates excellent chemical resistance, and is free of lead and chromate. This primer meets MIL-DTL-53022F Type IV composition and performance specification, and may be used as a primer under polyurethane chemical agent resistant coatings (CARC), specified in MIL-DTL-53039, MIL-PRF-22750 or MILDTL-64159 topcoats, or MIL-PRF-85285 (non-aircraft) polyurethane topcoats.

### E90A233/V93V236/R7K7

This E90A233/V93V236/R7K7 is a two-component, HAPS-free, and lead and chromate-free epoxy primer. This primer meets MIL-DTL-53022F Type IV composition and performance specification, and may be used as a primer under polyurethane CARC, specified in MIL-DTL-53039, MIL-PRF-22750 or MILDTL-64159 topcoats, or MIL-PRF-85285 (non-aircraft) polyurethane topcoats.

### E90A228/V93V235

As a HAPs-free two-component epoxy primer, E90A228/V93V235 hard-dries in 5 hours, demonstrates excellent hardness and chemical resistance, and is free of lead and chromate. This primer may be used under polyurethane CARC, specified in MIL-DTL-53039 and MIL-PRF-22750, MILDTL-64159 topcoats, or MIL-PRF85285 (non-aircraft) polyurethane topcoats.

### TOUCH-UP SOLUTION

E90A228SP is an approved Type V aerosol primer under the MIL-DTL-53022 specification. This aerosol can be used with other primers and topcoats in the CARC system, delivering uncompromised performance.

## ZERO-VOC PRIMER

Advanced technology by Sherwin-Williams enables industry-leading technology for reduced VOC content.

### E90A229/V93V234

Zero-VOC E90A229/V93V234 is a two-component epoxy primer that hard-dries in 5 hours. As a HAPs-free, lead and chromate-free primer, E90A229/V93V234 may be used under polyurethane CARC, specified in MIL-DTL-53039 and MIL-PRF- 22750, MIL-DTL-64159 topcoat or MIL-PRF85285 (non-aircraft) polyurethane topcoats.

## Your Total Solutions Provider

The advantages of Type IV primers from Sherwin-Williams don't stop at product technology. We provide tailored solutions to your business, designed to improve productivity for your entire coating system's. With a complete product line that is in-stock and ready to ship, and over 500 distribution locations throughout North America, we deliver solutions to you quickly – creating total cost-savings opportunities for your business.

**We are obsessed with protecting your products while improving your operations and increasing your productivity. For more information about Type IV enhanced corrosion primers, please contact your local Sherwin-Williams sales representative.**

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Cover Imagery: I Marine Expeditionary Force  
Combat Service Support Company FEX  
Photo by Lance Cpl. Dalton Swanbeck

**The appearance of U.S. Department of Defense (DoD) visual information does not imply or constitute DoD endorsement.**

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At Sherwin-Williams, we think about coatings differently, continuously seeking the perfect solution to help your products win over your customers. Whether you need the most rugged and protective coating, a technical expert to provide answers and hands-on support, consistently perfect color at just the right gloss, or a custom solution created just for you — we are here to help. We are Sherwin-Williams General Industrial Coatings, and we are obsessed with giving you the competitive edge.

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