

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.



UNCOMPROMISED PROTECTION

ENHANCED CORROSION PRIMERS
FOR MILITARY APPLICATIONS

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.**

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.

oem.sherwin-williams.com or call (855) 806-6846

© 2020 The Sherwin-Williams Company
GI-222988-BR 5/20