Product Finishes

Two Component Zinc Rich Epoxy Primer
MIL-PRF-32550 Type I, Form A, Class S

Component A......................................E90G17
Catalyst (Component B)......................V93V30

DESCRIPTION

Zinc Rich Epoxy Primer is a high solids two component epoxy-polyamide zinc rich primer. It contains 90%, by weight, of zinc in the dried film. This product is formulated to meet the corrosion requirements of MIL-PRF-32550 and MIL-DTL-53072. This product may be used with Chemical Agent Resistant Coatings (CARC).

Advantages:
- Zinc dust meets or exceeds the requirements for ASTM D520, Type II
- Provides cathodic protection
- Can be recoated with an epoxy intermediate in as little as 5 minutes
- The product is listed on the Qualified Product List (QPL) maintained by the Army Research Lab.

The following MIL-PRF-32550, Type I products are approved by the U.S. Army Research Lab, Aberdeen Proving Grounds, Aberdeen, MD.

Sherwin-Williams QPD
E90G17/V93V30 Q2251

Air Quality Data:
Photochemically reactive
Volatile Organic Compounds (VOC)* less exempt solvents
Component A as packaged, maximum
3.0 lb/gal, 360 g/L
Component B as packaged, maximum
5.0 lb/gal, 600 g/L
catalyzed as above, maximum
3.5 lb/gal, 420 g/L

An Environmental Data Sheet is available from your local Sherwin-Williams facility or at www.paintdocs.com

*VOC compliance limits vary from state to state; please consult local Air Quality rules and regulations

CHARACTERISTICS

Volume Solids (Typical):
Component A: 57 ± 1%
Component B: 30 ± 1%
Admixed: 51 ± 1%

Viscosity (Typical):
Admixed: 16-20 seconds #3 Zahn

Recommended film thickness (over profile):
Mils Wet: 5.0 – 7.0
Mils Dry: 2.5 - 3.5

Spreading Rate
820 sq ft/gal @ 1.0 mils DFT

Drying (77°F, 50% RH, @ 3 mils DFT):
To Touch: 30 minutes
Dry hard: 2 hours
Dry Through: 3 hours
To Recoat: 30 minutes
Force Dry: 5 minutes flash then 30 minutes @ 140°F

Induction Time:
30 minutes

Flash Point:
80°F Pensky Martens Closed Cup

Mixing Ratio (by volume):
4 parts E90G17 (Component A)
1 part V93V30 (Component B)

Package Life:
12 months, inside storage

SPECIFICATIONS

Minimum recommended surface preparation:
Iron and steel:
SSPC-SP10/NACE No.2.

CLEANING & PRETREATMENTS
Follow the most current revisions of MIL-DTL-53072 and/or TT-C-490 for required cleaning and pretreatment application before coating.

Note: See the current MIL-DTL-53072 for complete details regarding substrate preparation, coatings, and application.

Testing: The information, data, and recommendations set forth in this Product Data Sheet are based upon test results believed to be reliable. However, due to the wide variety of substrates, substrate properties, surface preparation methods, equipment and tools, application methods, and environments, the customer should test the complete system for adhesion, compatibility and performance prior to full scale application.
APPLICATION

Typical Setups

For all application and usage guidelines, please consult and review the MIL-DTL-53072 & TT-C-490 specifications as well as your local Sherwin-Williams representative.

To reduce, use MIL-T-81772 Type I (R91K20), MIL-T-81772 Type II (R91K210), Acetone (R6K9) or Tertiary Butyl Acetate (R6K38 or R6K221).

Cleanup:
Clean tools/equipment immediately after use with MEK, MIBK, MAK, or any or other epoxy thinners, such as MIL-T-81772, Type II (R91K210).

Follow manufacturer's safety recommendations when using any solvent.

SPECIFICATIONS

- During application the mixed coating must be continuously agitated to prevent settling of the zinc metal.
- Surface preparation is important for proper adhesion.

CAUTIONS

FOR INDUSTRIAL SHOP APPLICATION ONLY

Thoroughly review product label and Safety Data Sheet (SDS) for safety information and cautions prior to using this product.

To obtain the most current version of the Environmental Data Sheet (EDS), Product Data Sheet (PDS), or Safety Data Sheet (SDS) please visit your local Sherwin-Williams facility or www.paintdocs.com.

Please direct any questions or comments to your local Sherwin-Williams facility.

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