Sumter Coatings™

Product Data Sheet

Enviro-Zinc Organic Zinc Rich Epoxy Primer

100S9785B base / 100X9786A activator / 100S7387C dust

PRODUCT DESCRIPTION

Type

Low V.O.C. two-component zinc rich epoxy primer.

Description

100S9785-KIT Enviro-Zinc Organic Epoxy is the primer of choice in highly corrosive environments. This product is formulated to withstand many different environments when topcoated with Sumter Coatings high quality topcoats. We can guarantee a high- performance system whether you choose an epoxy or urethane topcoat. This primer is recommended for application under a wide variety of conditions and to a vast array of steel structures including, chemical plants, oil platforms, ships, power plants and many more.

Uses

- Structural Steel / Fabrication Shops
- Chemical Plants
- Off-shore platforms
- Power plants
- Not recommended for immersion services.

Features

- Packaged as a three-component product makes it versatile for various application environments.
- Provides a reduced possibility of corrosion through excellent cathodic protection.
- Meets SSPC Paint 20, Type II, Level 2 organic
- Meets the performance requirements of MPI 20
- Meets requirements set for ASTM A-490 Class "A" requirements for slip coefficient and creep resistance of 0.36.

SUBSTRATE & SURFACE PREPARATION

All

Substrate must be clean, dry and free of contaminants by using solvent or detergents. Remove contaminants by high pressure water cleaning.

Steel & Iron

This primer performs over SSPC-SP3; however, long-term performance is enhanced when applied over steel prepared in accordance with SSPC-SP6. For maximum protection from condensation, splash or spillage, SSPC-SP10 is recommended.

System

Normally coated with an intermediate coat such as various epoxy offerings and then finish coated with 2-component polyurethanes for exterior exposures.

MIXING & THINNING

Ratio

Three (3) components supplied in pre-measured units. Mix 1 parts of base **100S9785B**, and 1 part of activator **100X8786A and 1 part of 100S7387C Zinc Dust**. Ensure both B & A components are above 50°F before mixing and using. Do not alter proportions.

Mixing

Mix the base component thoroughly before use by boxing or with slow mechanical agitation to avoid adding air resulting in bubbles. Stir to ensure complete mixing. Be sure all settlement, if any, is well incorporated. Slowly add **100X9786A Activator** into base component with mechanical agitation until smooth and homogenous. Add zinc dust slowly into the mixed A & B components with mechanical agitation. Continue with slow agitation while using to keep zinc dust from settling.

Do Not Alter Proportions.

Thinning

Reduce viscosity as needed up to 5% by mixed volume with **560X1557 VOC Exempt Reducer** to maintain VOC levels. **560X0015 Epoxy Reducer** can be used where VOC is not a concern. Add 3-4 ounces of **480X9999** per mixed gallon to reduce dry spray and orange peel, if required. **480X9999** can be added to help add a wet edge for spraying large parts and to aid in brush and roll touch-up applications.

Pot Life

8 hours sprayable @ 77°F (25°C).

Cleanup

Use Wash Solvent (**560X0952**).

APPLICATION GUIDANCE

Application Conditions

Application of this product requires recommended temperature / humidity conditions and film thickness ranges. The material, booth, and substrate temperature should be no lower than 50°F before, during, and after application. Do not apply paint materials to surfaces less than 5°F above dew point, or to surfaces warmer than 105°F. Ambient temperature should be minimum 50°F to maximum 105°F. Paint temperature of 60°F to 80°F will provide best performance. **Relative Humidity:** Dry times are adversely affected as the relative humidity increases. Caution is encouraged when painting in very humid conditions.

Spray

This product can be applied by using conventional air spray equipment, HVLP, airless, or air assisted airless equipment. Brushing is recommended for touch-up only. Remove all in-line filtration before spraying.

Note

1. Make sure pots, guns, and lines are clean and purged.
2. We recommend the use of Teflon packings, 3/8" ID hose, and .019 tip for airless applications.
3. Pot life is 8 hours. For best results use the product within 7 hours of mixing.
4. A clean substrate is necessary for optimal performance of the primer, as direct contact of primer and steel surface is required for rust inhibition and good adhesion.

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CURE TIME & RECOAT WINDOW

Substrate Temperature	To Touch	Tack Free	To Recoat	Full Cure
75°F (24°C)	45-90'	3-4 hours	2 - 3 hours	7 days

Drying times are dependent upon film thickness, temperature and humidity.

PACKAGING, ESTIMATING & HANDLING

Product	Code	Packaging
Enviro-Zinc Organic Zinc Rich Base	100S8785B-G005	5-gallon pail with 2.33 gal. short-filled.
Enviro-Zinc Organic Rich Epoxy Activator	100X9786A-G001	1-gallon container with 0.79 gal. short filled
Enviro-Zinc Organic Rich Epoxy Zinc Dust	100S7387C-G005	53 pounds filled in metal pail.

Theoretical Coverage

283 ft^2 / catalyzed gallon @ 3.0 mil dry film thickness, unreduced.

Storage & Shelf Life

Maintain products in original packaging and sealed until ready for use. Estimated shelf life is 2 years when stored in a dry area at 70°F (21°C). Actual shelf life may vary with storage conditions.

Safety

Mixes and applications of this product present several hazards. Read and follow the hazard information, precautions and first aid directions on the individual product labels and safety data sheets before using.

Ventilation

Provide thorough air circulation during and after application until the material has cured when used in enclosed areas.

TYPICAL PHYSICAL PROPERTIES

Property	Typical Value
Specific properties below are of :	**100S9785-KIT (admixed)**
Color	Grayish green
Gloss	Flat
Pot Life	8 hours. *Best results are achieved when using within 6 hours of mixing. Do not use catalyzed material that has exceeded its pot life.*
Volume Solids	53%
VOC	3.3 lbs. / gal (396 g/l) ± .1 (Activated)
# HAPS/Gal N.V.	7.75
Recommended DFT	2.0 – 4.0 dry mils
	60°F for base, Pensky Martin
Flash Point	Mixed 39°F
Weight / gallon	12.9 lb./gal. admixed
Temperature Resistance	275°F
Shelf Life	2 years unopened and unactivated

HINTS FOR BETTER PERFORMANCE

All welds, sharp edges, angles and other areas prone to early rusting due to insufficient coverage should be stripe coated prior to full application to prevent premature failure in these areas.

Over-thinning of the coating material can result in an insufficient film-build, poor adhesion, and overall poor appearance.

During the spray application, use a 50% overlap with each pass of the gun. This will help ensure complete and thorough coverage, avoiding low build areas, which may corrode prematurely due to insufficient primer.

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