



Topxy Zinc E-811

Product Description

A self-curing solvent based fast curing zinc silicate coating. . Zinc content in the dry film conforms to SSPC-Paint 20, Level 2 and ISO 12944 standards. It is resistant to cyclic dry temperatures up to 400°C.

Product uses:

For the protection of blast cleaned steel surfaces. Capable of withstanding temperatures up to 400°C.

The product can be used as anti-corrosive primer in the following fields:

Bridges, Ship structures, Offshore-oil platforms, Chemical plant tanks, pipes, heat exchangers, Internal surfaces of storage tanks of petroleum products or similar applications as a single coat or as the first coat in a multi-layer system for long term protection.

TECHNICAL PROPERTIES

<i>Appearance/Color</i>	Matt / Gray
<i>Density:</i>	2.55 kg/liter (Mixed)
<i>Volume solids %:</i>	63 %
<i>Theoretical spreading rate:</i>	8.4 m ² /ltr / 3.3 m ² /kg (75 micron DFT)
<i>Recommended DFT: (Dry Film thickness)</i>	50-75 micron
<i>Flash Point:</i>	14° C. /57°F
<i>Pot Life:</i>	8 hours (23°C and 50% R.H.)
<i>VOC:</i>	450 g/l
<i>Dry to Touch:</i>	15 approx. min(s) 23°C/73.4°F 50% R.H
<i>Hard Dry:</i>	30 min. (23°C and 50% R.H.)
<i>Full cure time:</i>	10 hours (23°C and 50 % R.H.)
<i>Application temperature:</i>	+8 °C/46.4° F and +35 °C/ 95°F
<i>Min. cure temperature:</i>	+10°C/50°F

Application Details

<i>Mixing Ratio:</i>	Component A: 18.50– Component B: 10 (By weight)
<i>Application method:</i>	Brush – Airless Spray - Conventional Spray
<i>Thinner:</i>	Topthin 111 Thinner
<i>Thinner Amount:</i>	Brush (Do not thin) – Airless spray (10 %) - Conventional Spray (20%)



Surface Preparation:

All surfaces to be coated should be clean, dry and free from contamination. Prior to paint application all surfaces should be assessed and treated in accordance with ISO 8504:2000. Oil or grease should be removed in accordance with SSPC-SP1 solvent cleaning.

Abrasive Blast Cleaning

Abrasive blast clean to Sa2½ (ISO 8501-1:2007) or SSPC-SP6 (or SSPC-SP10 for optimum performance). If oxidation has occurred between blasting and application of **Topxy Zinc E-811**, the surface should be re blasted to the specified visual standard.

Surface defects revealed by the blast cleaning process should be ground, filled, or treated in the appropriate manner. A surface profile of 40-75 microns (1.5-3.0 mils) is recommended.

APPLICATION PROCEDURES

This is a two-component paint. Do not mix more material than you plan to use within the listed pot life. Complete containers must be mixed at one time. DO NOT MIX PARTIAL QUANTITIES FROM CONTAINERS OR PROPER COMPONENT RATIOS MAY NOT BE OBTAINED. Prior to mixing, components A Base and B Hardener should be at room temperature. Combine 10 parts by weight of Part B (silicate solution) with 18, 5 parts by weight of part A (zinc dust). Before mixing the two components shake part B (silicate solution) thoroughly. Add part A (zinc dust) to part B (silicate solution) under continuous stirring with a power mixer until a homogenous mixture is obtained. Add thinner if necessary and wait 10-15 minutes for induction before use. Mixed product must be used within 8 hours (20°C).

APPLICATION CONDITIONS

For the best results; Relative Humidity: Minimum 50% preferably above 65% relative humidity during application is required. Air Temperature: 0°C minimum, 35°C maximum. Surface Temperature: At least 3°C above dew point, 0°C minimum and 45°C maximum. Good ventilation is required during application

PRECEDING COAT:

Nothing

Important Remarks:

- At low humidity conditions, to accelerate curing of the coating, the surface can be sprayed with water 24 hours after application until complete curing of the coating is achieved.
- Do not apply more than 125 microns (5 mils) DFT to prevent mud-cracking.
- Do not apply the paint on a pre-construction primer or on previously painted surfaces.
- Long over coating intervals may lead to zinc corrosion products (white rust). Remove white rust with a stiff brush and clean the surface with appropriate detergent and/or pressurized fresh water. Avoid mechanical cleaning that would decrease DFT of the film.

Shelf life & Storage:

Part A—4 years, Part B—6 month's maximum shelf life when the material is stored indoors at 25°C in unopened original containers. Store the product in a dry, well ventilated place. Shelf life is reduced at temperatures above 25°C. If part B is gelled or if the mixed product causes gels, the shelf life is exceeded, do not use the material.



Safety:

For information and precautions on the safe handling, transportation storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

Legal Notice:

The information presented herein is given in good faith but without warranty. It's based on our experience, indicates our laboratory work results and does not necessarily indicate final product performance. We cannot be held liable for the results obtained with our products and for any loss or accident that may result from its use. Our suggestions don't release you from the obligation to check their validity and to test our products for both your process and end use application. All our products are sold in accordance with our General Conditions of Sale. We don't make any warranty, express or implied, including but not limited to the merchant ability and fitness for a particular purpose.