PRODUCT DATA SHEET

ZinCoat® - 700

Organic Zinc Epoxy Primer

GENERIC TYPE:
Three component, zinc filled, cross-linked epoxy primer.

DESCRIPTION:
ZinCoat-700 is a three package, polyamide epoxy, zinc rich coating which provides cathodic protection to ferrous metal. Recommended with proper topcoats for surfaces exposed to weather extremes, atmospheric corrosion, moisture, salt air, chemical environments and water immersion. More tolerant of surface preparation and application variables than inorganic zincs. ***ZinCoat-700*** is a high solids, organic zinc primer for protection of structural steel in salt or weathering environments.

FEATURES:
ZinCoat-700 provides excellent corrosion protection and resistance to salting, as well as high zinc loading per square foot.

- MIL-P-24441 Polyamide Epoxy Zinc Primer (Formula 159)
- Less than 2.8 lbs./gal. VOC as applied
- Outstanding application properties
- May be applied down to 35° F (2° Cel.)
- Hard tough film
- Excellent adhesion and undercutting resistance
- Material is prethinned -- Ready to spray
- ***ZinCoat-700*** meets the most stringent VOC (Volatile Organic Content) regulations

RECOMMENDED USES:
As a primer where excellent adhesion is needed on solvent-cleaned steel or for a marine environment protective coating. ***ZinCoat-700*** is excellent as a maintenance or general use zinc primer over commercially blasted steel that will be topcoated. Used for structural steel and equipment in pulp and paper, petrochemical, chemical processing and other severe environments with appropriate topcoat. Recommended in a shop environment where quick recoat and cure times are desired and where VOC regulations restrict the use of non-compliant coatings.

NOT RECOMMENDED FOR:
Immersion Service, Direct or indirect exposure to acids or alkalies without a suitable topcoat. Containment of aromatic solvents, strong mineral and organic acid or severely corrosive materials.

COMPATIBLE COATINGS:
May be topcoated with catalyzed epoxies, Polyurethanes and others as recommended. For specific topcoat recommendations, please consult your **SanyChem** Technical Service.

NOTE: A mist coat or tie is required to minimize topcoat bubbling.

ORDER INFORMATION:
Prices may be obtained from ***SanyChem Sales Representative*** or main Office.

APPROXIMATE SHIPPING WEIGHT :

Freight Classification: Paint, Combustible Liquid UN1263, PG III

Packaging:	**0.80 gallon Kit**	**4.0 gallons Kit**
ZinCoat-700	22.0 lbs.(10.0 kg.)	105.0 lbs. (48.0 kg.)
	1 gallon	**5 gallons**
SolvenSany # 252 Thinner	9.0 lbs. (4.0 kg.)	45.0 lbs. (20.0 kg.)
SolvenSany # 272 Thinner	9.0 lbs. (4.0 kg.)	45.0 lbs. (20.0 kg.)

FLASH POINT (Pensky/Martens Closed Cup) :

	Flash Point
ZinCoat-700 P/A	9 °C
ZinCoat-700 P/B	3 °C
SolvenSany # 270 Thinner	- 5 °C
SolvenSany # 272 Thinner	33 °C

SPECIFICATION DATA

- **Solids Content By Weight :** 64% ± 2%
- **Percent Total Zinc in Dry Film:** 81% ± 2%
- **Theoretical Coverage Rate per Gallon: ***
  1027 mil ft² (25.6 m² / l at 25 microns)
  342 mil ft² (8.5 m² / l at 75 microns)

•Mixing and application losses will vary and must be taken into consideration when estimating job requirements.

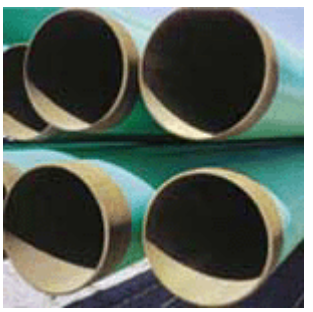
- **Volatile Organic Content (VOC) as supplied :** **EPA METHOD 24**
  As supplied (per mixing instructions) Base and Zinc Filler 303 g/L.
  These are nominal values.
- **Temperature Resistance (Non-Immersion Service):**

Continuous:	180°F (82°C)
Non-Continuous:	230°F (110 °C)

- **Recommended Dry Film Thickness Per Coat and system:**
  3.0 mils (75 microns). Dry film thickness in excess of 6.0 mils (150 microns) per coat is not recommended.
- **Color Standard in** : Green
- **Gloss** Matte
- **Substrates:** Apply over suitably prepared steel, or other as recommended.
- **Shelf Life :** ZinCoat-700 Base: 24 months when stored at 75 °F (25 °C)
  ZinCoat-700 Filler: 24 months minimum
- **Storage Conditions:** Store indoors.
  Temp.: 40 - 110 °F (4 -43 °C)
  Humidity: 0 - 100%

CHEMICAL RESISTANCE GUIDE
ZinCoat-700

Exposure	Splash & Spillage	Outside Weathering or Mild Fumes
Acids	Very Good	Excellent
Alkalies	Very Good	Excellent
Solvents	Very Good	Excellent
Water	Excellent	Excellent
Salt	Excellent	Excellent



January 2001 replaces April 1998

APPLICATION INSTRUCTIONS

These instructions are not intended to show product recommendations for specific service. They are issued as an aid in determining correct surface preparation, mixing instructions, and application procedure. It is assumed that the proper product recommendations have been made. These instructions should be followed closely to obtain the maximum service from the materials.

Substrates & Surface Preparation

General: Remove any oil or grease from surface to be coated with clean rags soaked in ***SolvenSany # 252*** Thinner or ***MetalCleaner # 100*** in accordance with SSPC-SP-1.

FERROUS METAL: Commercial Blast (SSPC-SP-6) to remove rust and scale and obtain a surface profile. For non- corrosive environments, Brush Blasting (SSPC-SP-7), Power Tool Cleaning (SSPC-SP-3) or Hand Tool Cleaning (SSPC-SP-2) are acceptable.

GALVANIZED METAL which has been mill treated with chromate or other type inhibitors may require ***SanyBond-WP100*** Vinyl Wash Pretreatment prior to painting. For specific information see Tech Data Sheet A-2, Painting Galvanized Steel.

PREVIOUSLY PAINTED SURFACES: Clean and prepare as indicated above. Remove loose peeling paint, chalk, rust, mildew, or other contaminants. Abrade smooth, glossy surfaces. Apply a test patch to confirm adhesion and compatibility.

Prime the same day as cleaning to prevent rerusting or further contamination.

Mixing: Stir pigmented components thoroughly before combining. Combine parts A and B in a clean container, power mix for 2-3 minutes. Allow 30 minutes sweat-in time before using or 1 hour if material temperature is below 70°F or relative humidity is above 80%. While mixing, add zinc dust slowly avoiding formation of lumps, mix well for 3-5 minutes with a mechanical mixer. For spray application, strain through a 30-60 mesh filter before using. Power mix base, then combine and mix in the following proportions:

Ratio

	0.80 Gal. Kit.	4.0 Gal. Kit
ZinCoat – 700 P/A	0.35 Gallon (Partially filled)	1.75 Gallons (Partially filled)
ZinCoat – 700 P/B	0.20 gallon	1.0 Gallon
ZinCoat – 700 P/C Zinc Filler	14.6 Lib. Unit	73 Lib. Unit

DO NOT MIX PARTIAL KITS

Thinning: Normally thinning is not required. If necessary due to application conditions, it may be thinned up to 6% by volume with **SolvenSany # 252** Thinner. In hot or windy conditions it may be thinned up to 6% by volume with **SolvenSany # 272** Thinner.

Potlife: 4 Hours at 75°F (24°C) and less at higher temperatures. Pot life ends when coating loses body and begins to sag.

Application Equipment

Listed below are general equipment guidelines for the application of this product. Job site conditions may require modifications to these guidelines to achieve the desired results. The following equipment has been found suitable and is available from manufacturers such as Binks, DeVilbiss and Graco.

Application Equipment

Listed below are general equipment guidelines for the application of this product. Job site conditions may require modifications to these guidelines to achieve the desired results. General guidelines:

Spray Application (General) The following spray equipment has been found suitable and is available from manufacturers such as Binks, DeVilbiss and Graco.

Conventional Spray Use sufficient air volume for correct operation of equipment. Use 50% overlap with each pass of the gun. On irregular surfaces, coat the edges first, making an extra pass later. Pressure pot equipped with dual regulations, ⅜ I.D. minimum material hose, 0.070" I.D. fluid Tip and appropriate Air Cap.

Airless Spray

Graco Silver or Equivalent

Pump Ratio:	30:1 (min.)
GPM Output:	3.0 (min.)
Material Hose:	3/8" I.D. (min.)
Tip Size:	.017-.019"
Output PSI:	2000 -2200
Filter Size:	60 mesh

Teflon packings are recommended and available from the pump manufacturer.

DRYING TIMES		
Temperature & 50% R.H.	**Dry to Handle**	**Dry to Topcoat**
2 °C	8 hours	10 hours
10 °C	5 hours	6 hours
24 °C	2 hours	3 hours
32 °C	1 hour	1 hour

These times are based on recommended dry film thickness. Excessive film thickness or inadequate ventilating conditions after application require longer dry times and will cause premature failure in extreme cases.

• **ZinCoat-700** will skin if left in opened container. Skin has no effect on performance, but should be removed before using.

• For interior application, or tank linings, if the relative humidity is low, the curing time can reduced by raising the relative humidity by steam or water spray on the coated surface after allowing to dry for one hour at 24 °C

APPLICATION TEMPERATURES				
Conditions	**Material**	**Surfaces**	**Ambient**	**Humidity**
Normal	16-29 °C	16 -32 °C	16–32 °C	0-90%
Minimum	4 °C	2 °C	2 °C	0 %
Maximum	32 °C	49 °C	43 °C	95 %
Do not apply when the surface temperature is less than 2 °C above the dew point				

Brush Brush For touch-up of areas less than one square foot only. Use medium bristle brush and avoid rebrushing.

Roller Not recommended

Cleanup & Safety

Cleanup Use **SolvenSany # 252**. In case of spillage, absorb and dispose of in accordance with local applicable regulations.

Safety Read and follow all caution statements on this product data sheet and on the MSDS for this product. Employ normal workmanlike safety precautions. Hypersensitive persons should wear protective clothing, gloves and use protective cream on face, hands and all exposed areas.

Ventilation When used in enclosed areas, thorough air circulation must be used during and after application until the coating is cured. The ventilation system should be capable of preventing the solvent vapor concentration from reaching the lower explosion limit for the solvents used. In addition to ensuring proper ventilation, appropriate respirators must be used by all application personnel.

Caution

This product contains flammable solvents. Keep away from sparks and open flames. All electrical equipment and installations should be made and grounded in accordance with the National Electric Code. In areas where explosion hazards exist, workmen should be required to use non-ferrous tools and wear conductive and non-sparking shoes.

FOR INDUSTRIAL USE ONLY. KEEP AWAY FROM CHILDREN.
1/2001

Contact

For information and Prices, Please Call a SANYCHEM Local Sales Representative.

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