



**PRODUCT DATA SHEET**  
**EpoSany® - 793 LF**  
**Lead-Free High Build Epoxy Coating**

**GENERIC TYPE:**

Epoxy polyamide. Part A and Part B mixed prior to application.

**DESCRIPTION:** *EpoSany-793 LF* is a Lead-Free corrosion resistant epoxy Protective Primer and Coating are two-component, 100% solids epoxy coatings based on multi-functional high performance resin and anticorrosive pigment. *EpoSany-793 LF* is used as a two coat system. Provides corrosion resistant protection to steel and other metals. *EpoSany-793 LF* is formulated in a convenient 1 to 1 ratio, by volume mix ratio and has a long pot life to simplify application. *EpoSany-793 LF* has excellent adhesion and better tolerance of field application variables than other types of coatings.

**FEATURES:**

- . Excellent corrosion barrier properties.
- . Excellent chemical resistance.
- . Excellent adhesion to most metals.
- . Excellent thermal resistance.
- . Tough, tile-like finish.
- . Protects concrete, steel, or wood against attack by salts, acids, and alkalis.
- . High non-sag properties can be applied up to 3 mils in 1 coat.

**RECOMMENDED USES:**

*EpoSany-793 LF* is recommended for protection of structural steel, concrete, equipment and tank exteriors in chemical food plants, breweries, paper mills and other industries with corrosive conditions. Excellent protection for equipment subjected to impact abrasion, detergents, water, steam and oils.

**NOT RECOMMENDED FOR:**

Immersion Service or splash and spillage of very strong solvents or concentrated acids.

**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:	2 gallon Kit	10 gallons Kit
<i>EpoSany-793 LF</i>	25.0 lbs. (11.4 kg.)	126.0 lbs. (57.3 kg.)
	1 gallon	5 gallons
<i>SolvenSany # 262</i> Thinner	9.0 lbs. (4.0 kg.)	45.0 lbs. (20.0 kg.)
<i>SolvenSany # 272</i> Thinner	9.0 lbs. (4.0 kg.)	45.0 lbs. (20.0 kg.)

**FLASH POINT (Pensky/Martens Closed Cup) :**

	Flash Point
<i>EpoSany-793 LF P/A</i>	8 °C
<i>EpoSany-793 LF P/B</i>	16 °C
<i>SolvenSany # 252</i> Thinner	25 °C
<i>SolvenSany # 272</i> Thinner	38 °C

**SPECIFICATION DATA**

- Theoretical Solids Content By Volume: *EpoSany-793 LF* 50% ± 2

- Theoretical Coverage Rate per Gallon: \*

<i>EpoSany-793 LF</i>	20.0 m <sup>2</sup> /Lit. at 25 microns.
	6.7 m <sup>2</sup> /Lit. at 75 microns.

Mixing and application losses will vary and must be taken into consideration when estimating job requirements. Coverage will be lower over rough surfaces and at higher dry film thicknesses. Heavy applications over organic coatings may result in softening and/or solvent entrapment.

- **Volatile Organic Content :** The following are nominal values: As supplied: 3.36 lbs/gal. 403 grams/Lit.

- **Temperature Resistance:** ( Non-Immersion )  
 Continuous : 200 °F (93 °C)  
 Non-Continuous : 250 °F (121 °C)

Discoloration and loss of gloss is observed above 200°F (93°C).

- **Recommended Dry Film Thickness Per Coat :**  
3 mils (75 microns)

- **Color Standard in :** Red (0054), Green(0042), Gray (0043), Yellow (00B4) and White (0013) are standard.

- **Substrates:** Apply over suitable primed metal, concrete or other surfaces as recommended.

- **Adhesion:** (ASTM D 4541) Excellent  
 - **Abrasion Resistance:** (ASTM D 4060) Excellent  
 - **Impact Resistance:** (ASTM D 2794) Very Good  
 - **Salt Spray Resistance:** (ASTM B 117) Very Good  
 - **Flexibility:** Good  
 - **Weathering:** Good (Chalks)

- **Gloss:** Flat

- **Shelf Life :** Part A : 24 months when stored at 75 °F (25 °C)  
 Part B : 24 months when stored at 75 °F (25 °C)

- **Storage Conditions:** Store indoors.  
 Temp.: 40 - 110 °F (4 -43 °C)  
 Humidity: 0 - 90%

**TYPICAL CHEMICAL RESISTANCE**

Exposure	Splash & Spillage	Fumes
Acids	Good	Very Good
Alkalies	Good	Excellent
Solvents	Very Good	Excellent
Salt	Excellent	Excellent
Water	Excellent	Excellent

**Topcoat Required:** May be used as an intermediate coat over inorganic zinc primers and can be applied over or topcoated with most epoxies, polyurethanes, acrylics and other as recommended. Please consult the appropriate system guide, the particular job specification or your **SanyChem Coatings'** Industrial Coatings Specialist for proper systems using this product.

**NOTE:** A mist coat of *EpoSany-793 LF* is required when applying material over inorganic zinc primers to minimize bubbling



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# 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:** Surfaces must be clean and dry. Employ adequate methods to remove dirt, dust, oil and all other contaminants that could interfere with adhesion of the coating.

**Steel:** SSPC-SP6 with a 1.0-2.0 mil (25-50 micron) surface profile.

**Concrete:** Concrete must be cured 28 days at 75°F (24°C) and 50% relative humidity or equivalent. Prepare surfaces in accordance with ASTM D42582 Surface Cleaning of Concrete and ASTM D4259 Abrading Concrete. Voids in concrete may require surfacing.

**Mixing:** Mix part A separately, then add Part B in the following proportions and mix thoroughly: Do not mix partial kits.

	2 Gal. Kit	10 Gal. Kit
EpoSany-793 LF P/A	1 gallon	5 gallons
EpoSany-793 LF P/B	1 gallon.	5 gallons

**Thinning:** May be thinned up to 25% by volume with **Solvensany # 262** Thinner. For hot or windy conditions use above 80 °F (27 °C), use **Solvensany # 272** Thinner.

**Potlife:** 12 hours minimum 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.

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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

**Spray** Use sufficient air volume for correct operation of equipment. Use a 50% overlap with each pass of the gun. On irregular surfaces, coat the edges first, making an extra pass later. May be applied by hot spray (Temperature not to exceed 95 °F (35 °C))

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

**Conventional Spray** Use a 3/8" minimum I.D. material hose. Hold gun approximately 12-14 inches from the surface and at a right angle to the surface.

Mfr. & Gun	Fluid Tip	Air Cap.
DeVilbiss P-MBC or JGA	E	704
Binks #18 or #62	66	63 PB
I.D.	Approx. 0.070" I.D.	

**Airless Spray** Use 3/8" minimum I.D. material hose. Hold gun approximately 18-20 inches from the surfaces and at a right angle to the surface.

Mfr. & Gun	Pump
DeVilbiss JGN-502	QFA-514 or QFA-519
Binks Model 700	Mercury 5C or B8-36 37:1
Graco 205-591	President 30:1 or Bulldog 30:1

Use a 0.013" - 0.017" tip with 2000 psi.  
Filter: 60 mesh

Teflon packings are recommended and available from the pump manufacturer.

## DRYING TIMES

Surface Temp. & 50% RH	Dry to Touch	Between Coats	Final Cure
50 °F ( 10 °C)	90 min.	24 hours	12 Days
60 °F ( 16 °C)	45 min.	12 hours	6 Days
75 °F ( 24 °C)	25 min.	6 hours	2 Days
90 °F ( 32 °C)	15 min.	3 hours	2 Days

This time are at 3 mils (75 microns) dry film thickness. Higher film thickness, insufficient ventilation or cooler temperatures will lengthen cure times and could result in solvent entrapment and premature failure.

If allowed to weather, chalking must be removed by water washing and then allowed to dry thoroughly prior to topcoating.

## APPLICATION CONDITIONS

	Material	Surfaces	Ambient	Humidity
Normal	65 – 85 °F (18 – 29 °C)	65 – 85 °F (18 – 29 °C)	65 – 90 °F (16 – 32 °C)	N/A
Minimum	55 °F ( 13 °C )	50 °F ( 10 °C )	50 °F ( 10 °C )	0 %
Maximum	90 °F ( 32 °C )	135 °F ( 57 °C )	110 °F ( 43 °C )	90 %

Do not apply when the surface temperature is less than 5 °F or 3 °C above the dew point.



**Brush:** Recommended for touch-up only. Use natural bristle brush applying with full strokes. Avoid rebrushing. Two coats may be required for uniform hiding and film thickness.



**Roller:** Use short nap mohair roller with phenolic core. Two coats may be required for uniform hiding and film thickness.

## 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 as a tank lining or 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.

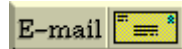
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