



## PRODUCT DATA SHEET

# EpoSany® - 903

### Epoxy High Solids Coating

#### GENERIC TYPE:

Cycloaliphatic Amine Epoxy. Part A and Part B mixed prior to application.

**DESCRIPTION:** **EpoSany-903** is a High solids corrosion resistant Epoxy primer and intermediate. Used either as a primer or an intermediate coat over steel and inorganic zinc primers. Can be topcoated with a broad variety of high performance finish coats. Can be applied by spray, brush or roller to yield a cured film which is tough and abrasion resistant. Performs extremely well under a wide variety of topcoats and application conditions.

#### FEATURES:

- Excellent corrosion protection
- Low VOC
- Self-priming on steel or masonry
- Abrasion resistant
- High build/high solids coating
- Excellent film build and edge protection
- Used as a primer or an intermediate coating
- Tested for Nuclear Service Level 1

**Limitations of Use:** Exterior exposure will cause a color change, early dulling, and loss of gloss, but this does not affect protective properties. Epoxy coatings may yellow during application and cure if exposed to the combustion by-products of improperly vented fossil fuel burning heaters. Commonly finished with **SanyChem Coatings KethaPol-3500 HS** Urethane coating for maximum exterior color & gloss retention.

#### RECOMMENDED USES:

**EpoSany-903** is recommended as a general purpose Epoxy Primer over abrasive blasted steel or as an intermediate coat over inorganic zinc primers. Must be topcoated with an appropriate topcoat for protection of structural steel, concrete, equipment and tank exteriors exposed to corrosive conditions. Can be applied over **ZinCoat-400 HS** (Inorganic Zinc Primers).

#### 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
<b>EpoSany-903</b>	29.0 lbs. (13.0 kg.)	143.0 lbs. (65 kg.)
	1 gallon	5 gallons
<b>SolvenSany # 252</b> Thinner	9.0 lbs. (4.0 kg.)	45.0 lbs. (20.0 kg.)
<b>SolvenSany # 272</b> Thinner	9.0 lbs. (4.0 kg.)	45.0 lbs. (20.0 kg.)

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

	Flash Point
<b>EpoSany-903 P/A</b>	16 °C
<b>EpoSany-903 P/B</b>	15 °C
<b>SolvenSany # 252</b> Thinner	-5 °C
<b>SolvenSany # 272</b> Thinner	32 °C



#### SPECIFICATION DATA

• **Theoretical Solids Content By Volume:** **EpoSany-903** 77% ± 2%

• **Theoretical Coverage Rate per Gallon: \***

<b>EpoSany-903</b>	30.8 m <sup>2</sup> /Lit. at 25 microns.
	10.3 m <sup>2</sup> /Lit. at 75 microns.
	6.2 m <sup>2</sup> /Lit. at 125 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: 1.62 lbs/gal. 195 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) for use in mild environments or as an intermediate coat over ZinCoat-400 HS (Inorganic Zinc Primers).

4 – 6 mils (100-150 microns) for use in more several conditions.

Dry film thickness in excess of 10 mils (250 microns) per coat are not recommended. Excessive film thickness over inorganic zinc may increase damaged during shipping or erection.

• **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.

• **Gloss** Eggshell

• **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%

**Compatible Coatings:** 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-903** 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 D4252 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.

	<u>2 Gal. Kit.</u>	<u>10 Gal. Kit</u>
<b>EpoSany-903 P/A</b>	1 gallon	5 gallons
<b>EpoSany-903 P/B</b>	1 gallon.	5 gallons

**Thinning:** May be thinned up to 16 fl.oz/gallon with **Solvensany # 252** Thinner for spray applications. For brush or Roller application, may be thinned up to 32 fl.oz/gallon with **SolvenSany # 272** Thinner.

**Potlife:** 4 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.



## 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

**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.

<u>Mfr. &amp; Gun</u>	<u>Fluid Tip</u>	<u>Air Cap.</u>
DeVilbiss P-MBC or JGA	E	704
Binks #18 or #62 I.D.	66	63 PB
	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.

<u>Mfr. &amp; Gun</u>	<u>Pump</u>
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 0.017" - 0.021" tip with 2100 - 2300 psi.  
Filter: 60 mesh

Teflon packings are recommended and available from the pump manufacturer.

## Contact



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

## Phones:



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## DRY TIME (Hours)

Dry to Touch: 3 hours at 75 °F ( 24 °C)  
Dry to Handle: 6 hours at 75 °F ( 24 °C)

## Surface Temp.

50 °F (10 °C) 24 hours  
60 °F (16 °C) 16 hours  
75 °F (24 °C) 08 hours  
90 °F (32 °C) 04 hours

## Dry to Topcoat

## Maximum Recoat Times:

30 days for solvents based epoxies  
90 days for solvent based Polyurethanes  
14 days for water based coatings.

This time are at 4 mils (100 microns) dry film thickness. Higher film thickness, insufficient ventilation or cooler temperatures will lengthen cure times and could result in solvent entrapment and premature failed.

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

If maximum recoat time has been exceeded, surface must be abraded by sweep blasting prior to application of any additional coats.



**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 medium to long nap-roller depending on surface. 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**



## Internet:

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