



**PRODUCT DATA SHEET**  
**EpoSany® - 750**  
 Modified Epoxy-Phenolic, Amine Adduct

**GENERIC TYPE:**

A two package, amine cured, cold set modified epoxy phenolic.

**DESCRIPTION:** *EpoSany-750* is a Epoxy Phenolic coating are specifically formulated for immersion or industrial maintenance application. **EpoSany-750 System** can be applied to concrete and metallic substrates. It provides outstanding chemical resistance to a wide range of acids, alkalis, salts, petroleum products and other aqueous solutions. **EpoSany-750 System** is a high build, cost-effective, tank lining system generally consisting of a prime coat and one coat of two finish coats.

**FEATURES:**

- Easily applied by spray
- Excellent resistance to crude oil and water.
- Excellent abrasion resistance
- Excellent overall chemical resistance
- Very good flexibility

**RECOMMENDED USES:**

**EpoSany-750 System** coating is a high performance coating capable of providing economical protection in severe, and chemically corrosive environments. It is formulated explicitly for sustained immersion for tank linings, heat transfer equipment, spiral heat exchangers, fans, blowers, filter plates, tank cars, tank trailers, duct work, exhaust hoods, and other industrial equipment. Used as an interior lining to protect tanks or other storage vessels containing corrosive chemicals or to maintain product purity. **EpoSany-750 System** is an economical lining for steel / concrete tanks and rolling stock. **EpoSany-750 System** meets the requirements of the U.S. Federal Register, Food and Drug Regulations, Title 21, Chapter 1, Paragraph 75.300. Cured coating meets requirements of DOD-P-23236 Type 1, Class 1.

**NOT RECOMMENDED FOR:**

Continuos immersion in water over 130 °F (54 °C). Containment of aromatic solvents, strong mineral and organic acid or severely corrosive materials.

**COMPATIBLE COATINGS:**

**EpoSany-750 System** may be applied over catalyzed epoxies, phenolics or other generic types as recommended. Apply **EpoSany-750 System** directly to properly prepared substrate. May be applied to **EpoSany-5125** or **EpoSany-6340** for seam sealers or glass reinforced tank bottoms. For concrete, use of an epoxy surfacer (**EpoSany-795 SC**). **EpoSany-750 System** may be topcoated with epoxies, modified phenolics or other generic type as recommended.



**SPECIFICATION DATA**

- **Solids Content By Volume:** **EpoSany-750 Primer** 65% ± 2%  
**EpoSany-750 Finish** 63% ± 2%
- **Theoretical Coverage Rate per Gallon: \***
  - EpoSany-750 Primer** 26 m<sup>2</sup> / Lit at 25 microns  
5 m<sup>2</sup> / Lit at 125 microns
  - EpoSany-750 Finish** 25 m<sup>2</sup> / Lit at 25 microns  
5 m<sup>2</sup> / Lit at 125 microns
- Mixing and application losses will vary and must be taken into consideration when estimating job requirements.
- **Volatile Organic Content ( VOC) as supplied :**
  - EpoSany-750 Primer** 300 grams/Lit.
  - EpoSany-750 Finish** 312 grams/Lit.
- **Temperature Resistance** ( Non-Immersion )
  - Continuous : 200 °F (93 °C)
  - Non-Continuos : 250 °F (121 °C)
- **Recommended Dry Film Thickness Per Coat and system:**
  - 1 Coat EpoSany-750 Primer 5 mils (125 microns)
  - 1 Coat EpoSany-750 Finish 5 mils (125 microns)
- **Color Standard in :**
  - FDA Approved Colors**
  - Primer:** Brick Red only.
  - Finish:** White, Gray, Blue.
  - For other non-FDA approved colors contact your **SanyChem** Sales representative.
- **Gloss** Flat
- **Substrates:** Apply over suitably prepared steel, concrete or others as recommended.
- **Shelf Life :** 24 months when stored at 75 °F (25 °C)
- **Storage Conditions:**
  - Store indoors.
  - Temp.: 40 - 110 °F (4 -43 °C)
  - Humidity: 0 - 100%

**TYPICAL CHEMICAL RESISTANCE**

Exposure	Immersion
Acids / Mineral	Good
Alkalies	Excellent
Solvents	Good - Excellent
Salt	Excellent
Water	Excellent

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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:

Remove any oil or grease from surface to be coated with clean rags soaked in **SolvenSany # 252** or **Surface AC Cleaner** in accordance with **SSPC-SP-1**.

### STEEL:

#### IMMERSION SERVICE:

Dry abrasive blast to a White Metal Finish in accordance with SSPC-SP-10 to a degree of cleanliness in accordance with NACE # 2 to obtain a 1.5 – 3 mil (37.5 -75 microns) blast profile. Weld slag must be removed and welds ground to a rounded contour. Stripping of properly prepared welds with EpoSany-750 Primer by brush or spray is recommended.

#### NON-IMMERSION:

Abrasive blast to a Commercial Grade Finish in accordance with SSP-SP-6 a degree of cleanliness in accordance with NACE # 3 to obtain a 3-4 mil (75-100 microns) blast profile.

### Concrete

Do not coat concrete treated with hardening solutions unless test patch indicate satisfactory adhesion. Do not apply coating unless concrete has cured at least 28 days at 70 °F ( 21 °C) and 50% R.H. or equivalent time. Apply to properly prepared concrete that was acid etched or sweep sandblasted. The oil impregnated concrete is difficult to clean properly. All saturated oil must be removed for adequate adhesion to be maintained.

#### IMMERSION SERVICE:

Abrasive blast to remove laitance and open all voids to obtain a surface texture similar to medium grit sandpaper. Void in the concrete may require surfacing with appropriate surfacer prior to application of EpoSany-750 System.

NOTE: After abrasive blasting, all dust, foreign particles and spent abrasive must be removed by blowing down with clean, dry, oil-free, brushing and vacuum cleaning.

**Mixing:** Mix separately, then combine and mix in the following proportions.:

	<b>1 Gal. Kit</b>	<b>5 Gal. Kit</b>
<b>EpoSany - 750 P/A</b>	0.80 Gallon	4 Gallons
<b>EpoSany - 750 P/B</b>	0.20 Gallon	1 Gallon

**Thinning:** May be thinned up to one quart per mixed gallon ( 25%) with **SolvenSany # 252** for spray application.

**Potlife:** 4 hours at 75 °F and less at higher temperature. Potlife ends when coating lose 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

Pressure pot equipped with dual regulators, 3/8" I.D. minimum material hose, .055 - .070" I.D. fluid tip and appropriate air cap.

#### Airless Spray

Pump Ratio: 30:1 (min.)  
GPM Output: 3.0 (min.)  
Material Hose: 3/8" I.D. (min.)  
Tip Size: .015 -.019"  
Output PSI: 1900-2300  
Filter Size: 60 mesh

Teflon packings are recommended and available from the pump manufacturer.

#### Brush & Roller

Use clean, short-bristled brush or medium nap roller. Work coating into all irregularities. Brush or roller application may result in less bright or uniform aluminum color. Two coats may be required to achieve proper film thickness.

## DRYING TIMES

Surface Temp. & 50% RH	Between Coats	Final Cure: Immersion Service
60 °F ( 16 °C)	2 Days	30 Days
75 °F ( 24 °C)	24 Hrs	15 Days
90 °F ( 32 °C)	12 Hrs	7 Days

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.

Final cure temperature below 16 °C are not recommended for tank linings.

Force curing is recommended for all tank linings especially for storage of food grade products. Force curing at elevated temperature increases chemical resistance to certain exposure. When exposure is severe, force curing is recommended to obtain maximum resistance.

Final cure requirement varies depending on exposure. Consult SanyChem Technical Service for specific recommendations.

## APPLICATION CONDITIONS

	Material	Surfaces	Ambient	Humidity
<b>Normal</b>	65 – 85 °F (18 – 29 °C)	65 – 85 °F (18 – 29 °C)	65 – 85 °F (18 – 29 °C)	30 – 60 %
<b>Minimum</b>	55 °F ( 13 °C)	50 °F ( 10 °C)	50 °F ( 10 °C)	0 %
<b>Maximum</b>	90 °F ( 32 °C)	110 °F ( 43 °C)	100 °F ( 38 °C)	85 %

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

**Excessive humidity or condensation on the surface during curing may result in a surface haze or blush; any haze or blush should be removed by washing with water before recoating.**

### Cleanup & Safety

#### Cleanup

Use **SolvenSany #272**. 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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