



**PRODUCT DATA SHEET**  
**EpoSany® - 5125**  
 High Solids Modified Epoxy-Polyamide

**GENERIC TYPE:**

A two-component, High Solids Modified Epoxy-Polyamide.

**DESCRIPTION:** *EpoSany-5125* is a very tough, hard coating developed for glass reinforced application up to 1/8" (0.32 cm) by two component airless spray, roller or squeegee. Excellent wetting properties minimize air entrapment frequently encountered during field application with glass reinforced materials. *EpoSany-5125* has sufficient flexibility to withstand the expansion and contraction effects encountered in large storage tanks.

**FEATURES:**

- Excellent resistance to deionized water up to 200 °F.
- Excellent resistance to crude oil, Water and Brine.
- Excellent abrasion resistance
- Excellent overall chemical resistance
- Single coat application reduces labor costs
- Resistant to inorganic and organic acids dilute, caustics dilute and most solvents aliphatics.

**RECOMMENDED USES:**

The primary application of *EpoSany-5125* is for repairing and reinforcing steel and concrete tank bottoms used for storage of crude oil or processed petroleum products. *EpoSany-5125* is designed for use in conjunction with chopped fiberglass, fiberglass Mat or fiberglass cloth. Is ideal for upgrading older crude storage facilities which have been severely corroded, and preparing new tanks for a long service life.

**NOT RECOMMENDED FOR:**

Containment of aromatic solvents or severely corrosive materials.

**PRIMER REQUIRED:**

None. For large steel surfaces, a 1-2 mil (25-30 micron) coat of *EpoSany-793* primer is recommended to preserve the blast profile and prevent rust formation.

**APPLICATION CONDITIONS**

	Material	Surfaces	Ambient	Humidity
<b>Normal</b>	65 – 85 °F (18 – 29 °C)	60 – 80 °F (16 – 27 °C)	60 – 80 °F (16 – 27 °C)	30 – 70 %
<b>Minimum</b>	60 °F ( 16 °C )	40 °F ( 4 °C )	40 °F ( 4 °C )	0 %
<b>Maximum</b>	100 °F ( 38 °C )	100 °F ( 38 °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.



**SPECIFICATION DATA**

- **Solids Content By Volume:** 99% ± 2%
- **Theoretical Coverage Rate per Gallon: \***
  - 39.6 m<sup>2</sup> / Lit at 25 microns
  - 0.7 m<sup>2</sup> / Lit at 1.15 mm ( Does not include Glass)
- \* Mixing and application losses will vary and must be taken into consideration when estimating job requirements. Coverage will be lower over rough surfaces. 1.67 m<sup>2</sup>/Gal. is a reasonable, practical coverage for job estimation purposes.
- **Temperature Resistance** (Non-Immersion)
  - Continuous : 200 °F ( 93 °C)
  - Immersion temperature resistance depends upon exposure
- **Recommended Dry Film Thickness Per Coat:**
  - 60 – 65 mils ( 1.15 – 1.16 mm)
- **Color Standard in :**
  - Green Only. Part A is Blue and Part B is yellow to provide visual indication of adequate mixing.
- **Flexibility :** Fair
- **Weathering :** N/A
- **Abrasion Resistance :** Excellent
- **Substrates:** Suitable prepared steel or cementitious surfaces.
- **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%

**COMPATIBLE COATINGS:**

May be applied over *EpoSany-793* Primer, or others Primers. Consult **SanyChem** Technical Service Department for specific recommendation.

**TOPCOAT REQUIRED:**

Normally is specified a Gel-Coat. May be topcoated with *PhenoSany-810* Finish or others as specified.

**TYPICAL CHEMICAL RESISTANCE**

Exposure	Immersion	Fumes
Acids, Diluite	Good	Excellent
Alkalies, Diluite	Good	Excellent
Solvents, Aliphatics	Excellent	Excellent
Sour crude Oil	Excellent	Excellent
Water	Excellent	Excellent
Salts	Excellent	Excellent

January 2001 replaces April 1998

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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:

Dry abrasive blast to a White Metal Finish in accordance with **SSPC-SP-5** to a degree of cleanliness in accordance with **NACE # 1** 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.

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

	1½ Gal. Kit.	15 Gal. Kit
<b>EpoSany - 5125 P/A</b>	1.0 Gallon	10 Gallons
<b>EpoSany - 5125 P/B</b>	½ Gallon	05 Gallons

**Thinning:** Is Not required.

**Potlife:** 20 - 30 minutes at 75 °F and less at higher temperature. Potlife ends when coating begins to gel.

### 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.

### Spray Application (General)

The following spray equipment has been found suitable and is available from manufacturers such as Binks, DeVilbiss and Graco. Use adequate volume for correct operation. Use a 50% overlap with each pass of the gun. On irregular surfaces, coat the edges first, making an extra pass.

### Airless Spray

Special designed, Plural-Component high Pressure Airless Spray Machine.

### BINKS GRACO

**Pumps**  
Model "C" or Model "G" with 2:1 mix ratio  
BullDog Hydra-Cat Model 209-000 with 2:1 mix ratio

### BINKS GRACO

**Transfer Pumps (Two required)**  
4:1 (3/4" I.D. material line to dual component pump)  
10: 1 President ( ¾" I.D. material line to dual component)

### BINKS GRACO

**Spray Gum**  
Model 700  
208-663 Silver Airless  
Spray Tips: Orifice Size: 0.027" to 0.035"  
Fan Width: 10" to 14"

### BINKS GRACO

**In Line Heaters (Two Required)**  
42-5126, 115 or 220 VAC, 2250 Watts  
Viscon 226-816, 120 VAC 2100 Watts

### BINKS ELECTRIC

**Band Heater ( Two Required). 05 Gallon Pail.**  
104-1003, 115 VAC, 1500 Watts  
tph-5, 115 VAC, 1500 Watts

### BINKS

**55 Gallons – Drum**  
104-1012, 115 VAC, 2500 Watts  
104-1023, 230 VAC, 3000 Watts

### GRACO

**Mixer Manifold**  
946-832  
Hose: Dual component Pump to Mixer Manifold  
3/8" I.D. minimum heated hose with 200 foot max. length

### BINKS GRACO

**Solvent Pumps**  
25:1 Economy ( ¼" I.D. line to mixer Manifold  
10:1 President ( ¼" I.D. line to mixer Manifold

### BINKS

**FiberGlass Chopper**  
Chopper Gun 101-8090

## DRYING TIMES

Surface Temp. & 50% RH	Between Coats	Final Cure:
40 °F ( 4 °C)	96 hrs	-
60 °F ( 16 °C)	48 Hrs	12 Days
75 °F ( 24 °C)	24 Hrs	6 Days
90 °F ( 32 °C)	12 Hrs	3 Days

### Roller:

- Catalyze the **EpoSany-5125**, pour into a puddle on the prepared bottom and roll out. Note: The working time of the material is increased to approximately one hour with this procedure.
- Imbed into this **EpoSany-5125** base coat a woven glass cloth such as 10 oz. ( 285 grams) Volan cloth finish (16 warp x 14 fill plain weave, 0.0125 thickness, Owens Corning's Style 1800 or Fiberglass Mat such Owens Corning's 1½ oz. ( 5 cm) on each side. Use a serrated fiberglass inlay roller to "Wet Out" fiberglass.  
**OPTIONAL:** Using a fiberglass chopper, apply chopped fiberglass roving at 1 - 1½ oz. per square foot of area while applying **EpoSany-5125** with the spray gun.
- Lap 18 inches (45.7 cm) up the interior wall producing a continuous bottom system. Multiple coats are required on vertical surfaces to achieve required thickness.
- Apply a 12-15 mil (300-375 micron) Gel-Coat of **EpoSany-5125** after recommended between coat dry time.

### BRUSH:

Use for patching and / or touch-up areas only. Use natural bristle brush applying with full strokes. Avoid rebrushing.

**NOTE:** If the cure time between coats is exceeded by more than 24 hours at 24 °C, the cured coat should be wiped down with **MetalCleaner # 200** using clean rags or mops and / or roughened by coarse sanding or sweep sandblasting prior to overcoating. Excessive humidity or condensation on the surface during curing may result in a haze or blush which should be removed by water washing 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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