PRODUCT DATA SHEET

EpoSany® - 900

High Solids Modified Epoxy-Amine

GENERIC TYPE:
Cycloaliphatic Amine Epoxy

DESCRIPTION:
EpoSany-900 is a highly chemical resistant epoxy mastic coating with exceptionally versatile uses in all industrial markets. Self-priming and suitable for application over most existing coatings, and tightly adherent to rust. ***EpoSany-900*** serves as stand-alone system for a variety of chemical environments. ***EpoSany-900*** is also designed for various immersion conditions.

FEATURES:
- Excellent chemical resistance
- Surface tolerant characteristics
- Conventional and low-temperature versions
- Self-priming and primer/finish capabilities
- Very good abrasion resistance
- VOC compliant to current AIM regulations
- Tested for Nuclear Service Level 1

RECOMMENDED USES:
Recommended where a high performance, chemically resistant epoxy topcoat is desired. Offers outstanding protection for interior floors, walls, piping, equipment and structural steel or as an exterior coating for railcars, structural steel and equipment in various corrosive enviroments. Recommended industrial enviroments include chemical processing, Offshore Oil and Gas, Food processing and Pharmaceutical, Water and Waste Treatment, Pulp and paper, Power generation, etc. **EpoSany-900** has been accepted for use in areas controlled by USDA regulations for incidental food contact. (Ref. FDA CFR 175.300)

NOT RECOMMENDED FOR:
Strong acid or solvents exposures, or immersion service other than water, or exterior weathering where color retention is desired, such as a finish for tank exteriors.

PRIMER REQUIRED:
Self-priming. May be applied over inorganic zinc primers and other tightly adhering coatings. A mist coat may be required to minimize bubbling over inorganic zinc primers. Do not apply over latex coatings. Due to discoloration do not use as a topcoat.

SPECIFICATION DATA

- **Solids Content By Volume:** 75% ± 2%

- **Theoretical Coverage Rate per Gallon: ***

  30.0 m² / Lit at 25 microns
  6.0 m² / Lit at 125 microns

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

- **VOC** As supplied 1.7 lbs/gal (214 g/l)

Thinned with **SolvenSany # 252*** 7oz/gal=2.0 lbs/gal (250g/l)
13oz/gal=2.2 lbs/gal (271g/l)

Thinned with **SolvenSany # 272*** 7oz/gal=2.0 lbs/gal (250g/l)
16oz/gal=2.3 lbs/gal (285g/l)

*Use Thinner **SolvenSany # 280** up to 8 oz/gal for **EpoSany-900** where non-photochemically reactive solvents are required.

Temperature Resistance Continuous: 250°F (121°C)
Non-Continuous: 300°F (149°C)

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

- **Recommended Dry Film Thickness Per Coat:**
  4.0-6.0 mils (100-150 microns) per coat
  6.0-8.0 mils (150-200 microns) over light rust and for uniform gloss over inorganic zincs.

  Don't exceed 10 mils (254 microns) in a single coat. Excessive film thickness over inorganic zincs may increase damage during shipping or erection.

- **Color** Refer to SanyChem Color Guide. Certain colors may require multiple coats for hiding. Note: The low temperature formulation will cause most colors to yellow or discolor more than normal in a short period of time. (Epoxies lose gloss, discolor and chalk in sunlight exposure.)

- **Gloss** High gloss (Epoxy loss gloss, discolor and eventually chalk in sunlight exposure). Less than 4 mils DFT will reduce gloss.

- **Substrates:** Suitable prepared steel or cementitious surfaces.

- **Shelf Life :** 36 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 directly over inorganic zincs, weathered galvanizing, catalyzed epoxies, phenolics or other coatings as instructed. A test patch is recommended before use over existing coatings. **EpoSany-900** may be used as a tiecoat over inorganic zincs. A mist coat of **EpoSany-900** is required when applied over inorganic zincs to minimize bubbling. Not recommended over chlorinated rubber or latex coatings. Consult **SanyChem** Technical Service Department for specific recommendation.

TOPCOAT REQUIRED:
Acrylics, Epoxies, Polyurethanes

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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 1.5-3.0 mils (38-75 microns)
SSPC-SP2 or SP3 are suitable cleaning methods for mild environments.

Concrete
Concrete must be cured 28 days at 75°F (24°C) and 50% relative humidity or equivalent. Prepare surfaces in accordance with ASTM D4258 Surface Cleaning of Concrete and ASTM D4259 Abrading Concrete. Voids in concrete may require surfacing. Prime with **EpoSany-F4010**.

Galvanized Steel
SSPC-SP1 and prime with specific **SanyChem** primers as defined in the *Market Guides*.

CMU: Mortar joints should be thoroughly cured for a minimum of 15 days at 75°F (24°C) and 50% relative humidity or equivalent. Prime with a suitable block filler or **EpoSany-F4010**.

Drywall & Plaster: Joint compound and plaster should be fully cured prior to coating application. Prime with **KoraTex-700** or **EpoSany F4010**.

Previously Painted Surfaces: Lightly sand or abrade to roughen surface and degloss the surface. Existing paint must attain a minimum 3B rating in accordance with ASTM D3359 "X-Scribe" adhesion test.

Mixing: Power mix separately, then combine and power mix. DO NOT MIX PARTIAL KITS.

	2 Gal. Kit.	10 Gal. Kit
EpoSany - 900 P/A	1.0 Gallon	05 Gallons
EpoSany - 900 P/B	1.0 Gallon	05 Gallons

Thinning: Spray: Up to 13 oz/gal (10%) with SolvenSany #252
Brush: Up to 16 oz/gal (12%) with SolvenSany #272
Roller: Up to 16 oz/gal (12%) with SolvenSany #272
#272 can be used for spray in hot/windy conditions. Use of thinners other than those supplied or recommended by SanyChem may adversely affect product performance and void product warranty, whether expressed or implied.
*See VOC values for thinning limits.

Potlife: 3 hours 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. General Guidelines:

Spray Application (General)
This is a high solids coating and may require adjustments in spray techniques. Wet film thickness is easily and quickly achieved. 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, .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: .017"-.021"
Output PSI: 2100-2300
Filter Size: 60 mesh

Teflon packings are recommended and available from the pump manufacturer.

Brush & Roller (General)
Multiple coats may be required to obtain desired appearance, recommended dry film thickness and adequate hiding. Avoid excessive re-brushing or rerolling. For best results, tie-in within 10 minutes at 75°F (24°C).

Brush Use a medium bristle brush.

Roller Use a short-nap synthetic roller cover with phenolic core.

APPLICATION CONDITIONS

	Material	Surfaces	Ambient	Humidity
Normal	60 – 85 °F (16 – 29 °C)	60 – 85 °F (16 – 29 °C)	60 – 90 °F (16 – 32 °C)	0 – 80 %
Minimum	50 °F (10 °C)	50 °F (10 °C)	50 °F (10 °C)	0 %
Maximum	90 °F (32°C)	125 °F (52 °C)	110 °F (43 °C)	80 %

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

This product simply requires the substrate temperature to be above the dew point. Condensation due to substrate temperatures below the dew point can cause flash rusting on prepared steel and interfere with proper adhesion to the substrate. Special application techniques may be required above or below normal application conditions.

DRYING TIMES

Surface Temp. & 50% RH	Dry to Topcoat*	Final Cure
50 °F (10 °C)	24 Hrs	3 Days
60 °F (16 °C)	16 Hrs	2 Days
75 °F (24 °C)	8 Hrs	24 Hrs
90 °F (32 °C)	4 Hrs	16 Hrs

This times are at 5 mils (125 microns) dry film thickness. Higher film thickness will lengthen cure time.

Dry to touch 2½ hours at 24 °C Dry to handle 6½ hours at 24 °C

* When recoating with **EpoSany-900**, recoat times will be drastically reduced. When topcoating epoxies, it is generally practiced to topcoat within 30 days of application. If this recoat window has been exceeded, contac SanyChem technical service for special recommendatiosn.

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

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