**PRODUCT DATA SHEET**

**EpoSany® - 900**
High Solids Modified Epoxy-Amine

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**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 environments. Recommended industrial environments 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.

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**SPECIFICATION DATA**

<table>
<thead>
<tr>
<th><strong>Characteristic</strong></th>
<th><strong>Value</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Solids Content By Volume:</strong></td>
<td>75% ± 2%</td>
</tr>
<tr>
<td><strong>Theoretical Coverage Rate per Gallon:</strong></td>
<td></td>
</tr>
<tr>
<td>As supplied</td>
<td>30.0 m²/25 microns per coat</td>
</tr>
<tr>
<td>Thinned with SolvenSany # 252*</td>
<td>1.7 lbs/gal (214 g/l)</td>
</tr>
<tr>
<td>Thinned with SolvenSany # 272*</td>
<td>7oz/gal=2.0 lbs/gal (250g/l)</td>
</tr>
<tr>
<td></td>
<td>13oz/gal=2.2 lbs/gal (271g/l)</td>
</tr>
<tr>
<td></td>
<td>7oz/gal=2.0 lbs/gal (250g/l)</td>
</tr>
<tr>
<td></td>
<td>16oz/gal=2.3 lbs/gal (285g/l)</td>
</tr>
<tr>
<td><strong>VOC</strong></td>
<td></td>
</tr>
<tr>
<td>As supplied</td>
<td>1.7 lbs/gal (214 g/l)</td>
</tr>
<tr>
<td>Thinned with SolvenSany # 252*</td>
<td></td>
</tr>
<tr>
<td>Thinned with SolvenSany # 272*</td>
<td></td>
</tr>
<tr>
<td><em>Use Thinner SolvenSany # 280 up to 8 oz/gal for EpoSany-900 where non-photochemically reactive solvents are required.</em></td>
<td></td>
</tr>
</tbody>
</table>

**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).

**Temperature Resistance (Continued):**
- Recommended Dry Film Thickness Per Coat:
  - 4.0-6.0 mils (100-150 microns) per coat
  - 8.0-8.5 mils (200-220 microns) over light rust and for uniform gloss over inorganic zins.
- Don't exceed 10 mils (254 microns) in a single coat. Excessive film thickness over inorganic zins 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 zins, 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 zins. A mist coat of *EpoSany®-900* is required when applied over inorganic zins 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 Ablading 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.

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 #252
Roller: Up to 16 oz/gal (12%) with SolvenSany #272

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.

Cleaning & Safety

Cleanup
Use SolvenSany #272. In case of spillage, absorb and dispose 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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Application Conditions

<table>
<thead>
<tr>
<th>Material</th>
<th>Surfaces</th>
<th>Ambient</th>
<th>Humidity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Normal</td>
<td>60 – 85 °F (16 – 29 °C)</td>
<td>60 – 85 °F (16 – 29 °C)</td>
<td>60 – 90 °F (16 – 32 °C)</td>
</tr>
<tr>
<td>Minimum</td>
<td>50 °F (10 °C)</td>
<td>50 °F (10 °C)</td>
<td>50 °F (10 °C)</td>
</tr>
<tr>
<td>Maximum</td>
<td>90 °F (32 °C)</td>
<td>125 °F (52 °C)</td>
<td>110 °F (43 °C)</td>
</tr>
</tbody>
</table>

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

Drying Times

<table>
<thead>
<tr>
<th>Surface Temp. &amp; % RH</th>
<th>Dry to Topcoat*</th>
<th>Final Cure</th>
</tr>
</thead>
<tbody>
<tr>
<td>90 °F (32 °C)</td>
<td>24 Hrs</td>
<td>3 Days</td>
</tr>
<tr>
<td>60 °F (16 °C)</td>
<td>16 Hrs</td>
<td>2 Days</td>
</tr>
<tr>
<td>75 °F (24 °C)</td>
<td>8 Hrs</td>
<td>24 Hrs</td>
</tr>
<tr>
<td>90 °F (32 °C)</td>
<td>4 Hrs</td>
<td>18 Hrs</td>
</tr>
</tbody>
</table>

This product is a high solids coating and may require adjustments in spray techniques. Wet thickening begins to gel.

*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, contact SanyChem technical service for special recommendations.