PRODUCT DATA SHEET

EpoSany® - 791 HB
High Performance Epoxy Topcoat

SPECIFICATION DATA

- **Theoretical Solids Content By Volume:**
  - EpoSany-791 HB: 59% ± 2%

- **Theoretical Coverage Rate per Gallon (1 ½ gallon kit):**
  - EpoSany-791 HB: 23.6 m²/Lit. at 25 microns.
  - 4.7 m²/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.

- **Recommended Dry Film Thickness per Coat:**
  4-6 mils (100 – 150 microns)

- **Temperature Resistance (Non-Immersion):**
  - Continuous: 200°F (93°C)
  - Non-Continuous: 250°F (121°C)

- **Color Standard in:**
  - EpoSany-791 HB Primer may be applied to property prepared steel or concrete.
  - Brick Red only
  - White(100A1) and Gray (20002) are standard.
  - Other colors are available on special order.

- **Abrasion Resistance:**
  - Very Good

- **Weathering:**
  - Very Good (Chalks-results in fading, most noticeable in dark colors)

- **Flexibility:**
  - Good

- **Substrates:**
  - EpoSany-791 HB Primer may be applied to properly prepared steel or concrete.

- **Gloss:**
  - Low

- **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%

Topcoat Required: Normally none. 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-791 HB is required when applying material over inorganic zinc primers to minimize bubbling.

TYPICAL CHEMICAL RESISTANCE

<table>
<thead>
<tr>
<th>Exposure</th>
<th>Immersion</th>
<th>Splash &amp; Spillage</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Acids</strong></td>
<td>NR</td>
<td>Good – Excellent</td>
</tr>
<tr>
<td><strong>Alkalis</strong></td>
<td>Excellent</td>
<td>150 °F (66 °C)</td>
</tr>
<tr>
<td><strong>Solvents</strong></td>
<td>NR</td>
<td>Fair - Good</td>
</tr>
<tr>
<td><strong>Sugar Solutions</strong></td>
<td>Excellent</td>
<td>150 °F (66 °C)</td>
</tr>
<tr>
<td><strong>Water</strong></td>
<td>Excellent</td>
<td>150 °F (66 °C)</td>
</tr>
<tr>
<td><strong>Salts</strong></td>
<td>Excellent</td>
<td>150 °F (66 °C)</td>
</tr>
</tbody>
</table>

Compatibility with other coatings: May be applied over Zincoat-400 HB, or other as recommended.

January 2001 replaces April 1998

To the best of our knowledge the technical data contained herein is true and accurate on the date of publication and is subject to change without prior notice. User must contact SanyChem Company to verify correctness before specifying or ordering. No guarantee of accuracy is given or implied. We guarantee our products to conform to SanyChem quality control. We assume no responsibility for coverage, performance or injuries resulting from use. Liability, if any, is limited to replacement of products. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY SANYCHEM. EXPRESS OR IMPLIED, STATUTORY, BY OPERATION OF LAW, OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. SanyChem and EpoSany are registered trademarks of SanyChem Company.

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: 27.0 lbs. (12.3 kg.)
- 5 gallons Kit: 133.0 lbs. (60.4 kg.)
- SolvenSany # 252 Thinner: 9.0 lbs. (4.1 kg.)
- 1 gallon: 45.0 lbs. (20.4 kg.)
- SolvenSany # 262 Thinner: 9.0 lbs. (4.1 kg.)
- 5 gallons: 45.0 lbs. (20.4 kg.)

FLASH POINT (Pensky/Martens Closed Cup):

- EpoSany-791 HB P/A: 20 °C
- EpoSany-791 HB P/B: 6 °C
- SolvenSany # 252 Thinner: < -1 °C
- SolvenSany # 262 Thinner: 25 °C

CERTIFICATION

NSF certified for Potable Water
ANSI/NSF Standard 61
See current NSF Listing for restrictions.

SanyChem

FEATURES:

- Excellent corrosion protection
- Excellent solvent and chemical resistance – resists splash and spillage of solvents, alkalis, salts, moisture, oil, greases, foodstuffs and detergents
- Low VOC
- Self-priming on steel or masonry
- Abrasion resistant
- High build/high solids coating
- Suitable for salt and fresh water immersion
- Certified for potable water service by NSF

RECOMMENDED USES:

EpoSany-791 HB is an excellent topcoat for the protection of steel and concrete surfaces in Nuclear Power Plants. Suitable for use in areas which are exposed to chemicals, steam and abrasion inherent in a Nuclear Generating Facility. EpoSany-791 HB may be used where resistance to nuclear radiation and decontamination procedure are a requirement. When applied over an appropriate primer, EpoSany-791 HB is an exciting Tank Liner for Potable Water, meeting FDA formulation requirements and FDA/EPA extraction criteria.

Special Qualifications:
Meets or exceeds the performance requirements of Corps of Engineers C-200; Steel Structures Painting Council Paint 16; Federal Specification MIL-P-23236B (SH) Type I and IV Class 2.

NOT RECOMMENDED FOR:

Immiscibility Service in water over 130 °F (54 °C), strong mineral and organic acids, or solvents.

DESCRIPTION:

EpoSany-791 HB is a high performance, two component, chemically-cured one coat, high-build epoxy coating system for steel and masonry which can be applied up to 5 mils (125 microns) in one coat. Meets the stringent performance requirements of the American National Standards Institute, ANSI N101.2 and ANSI N5.12. Has performed satisfactorily in radiation resistance and decontamination testing laboratories. Has been successfully evaluated under typical Loss of Coolant Accident (LOCA) exposure criteria specified by the Nuclear Industry.

Gloss:

- High Performance Epoxy Topcoat
- EpoSany® - 791 HB
- Theoretical Coverage Rate per Gallon (1 ½ gallon kit): *
- EpoSany-791 HB
- 23.6 m²/Lit. at 25 microns.
- 4.7 m²/Lit. at 125 microns.

- Immersion Service in water over 130 °F (54 °C), strong mineral and organic acids, or solvents.
- High build/high solids coating
- Abrasion resistant
- Self-priming on steel or masonry
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 #280 Thinner in accordance with SSPC-SP-1-62.

Steel / Concrete: Apply over clean, dry recommended primer or surfae.

NOTE: A mist coat of EpoSany-791 HB is required when applying material over inorganic zinc primers to minimize bubbling.

Previously Painted Surfaces: Old coatings should be tested for lifting. If lifting occurs, remove them. Otherwise scoff sand glossi areas and aged epoxy coatings. Clean aged epoxy or urethane coatings with MetalCleaner #100. Remove cracked and peeling paint. Prime bare areas with a primer specified under New Surfaces.

Mixing:

Mix part A separately, then add Part B in the following proportions and mix thoroughly: Do not mix partial kits.

<table>
<thead>
<tr>
<th>Kit</th>
<th>Material Quantity</th>
<th>Gallons</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 Gal. Kit</td>
<td>1 gallon</td>
<td>2</td>
</tr>
<tr>
<td>10 Gal. Kit</td>
<td>5 gallons</td>
<td>10</td>
</tr>
</tbody>
</table>

Thinning:

May be thinned up to 25% by volume with Solvensany #262. 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.

<table>
<thead>
<tr>
<th>Mfr. &amp; Gun</th>
<th>Fluid Tip</th>
<th>Air Cap</th>
</tr>
</thead>
<tbody>
<tr>
<td>DeVilbiss P-MBC or JGA</td>
<td>E</td>
<td>704</td>
</tr>
<tr>
<td>Binks #18 or #62</td>
<td>66</td>
<td>63 PB</td>
</tr>
<tr>
<td>I.D.</td>
<td>Approx. 0.070” I.D.</td>
<td></td>
</tr>
</tbody>
</table>

Airless Spray

Use a 3/8” minimum I.D. material hose. Hold gun approximately 18-20 inches from the surfaces and at a right angle to the surface.

<table>
<thead>
<tr>
<th>Mfr. &amp; Gun</th>
<th>Pump</th>
<th>Material Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>DeVilbiss JGN-502</td>
<td>QFA-514 or QFA-519</td>
<td>262</td>
</tr>
<tr>
<td>Binks Model 700</td>
<td>Mercury 5C or B8-36-37:1</td>
<td>262</td>
</tr>
<tr>
<td>Graco 205-591</td>
<td>President 30:1 or BullDog 30:1</td>
<td>262</td>
</tr>
</tbody>
</table>

Use a 0.021” - 0.025” tip with 2100 – 2400 psi.

Filter: 60 mesh

Teflon packings are recommended and available from the pump manufacturer.

Dry Time

Surface Temp. | Dry To Handle | Between Coats | Immersion Service |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>40 °F (4 °C)</td>
<td>02 days</td>
<td>03 days</td>
<td>*</td>
</tr>
<tr>
<td>60 °F (16 °C)</td>
<td>16 hours</td>
<td>24 hours</td>
<td>14 days</td>
</tr>
<tr>
<td>75 °F (24 °C)</td>
<td>08 hours</td>
<td>12 hours</td>
<td>07 days</td>
</tr>
<tr>
<td>90 °F (32 °C)</td>
<td>04 hours</td>
<td>06 hours</td>
<td>03 days</td>
</tr>
<tr>
<td>110 °F (43 °C)</td>
<td>02 hours</td>
<td>03 hours</td>
<td>01 day</td>
</tr>
</tbody>
</table>

This time is based on the recommended dry film thickness per coat. Higher film thickness will lengthen cure times. * Force curing is suggested for all tank linings. Final cure below 60 °F (16 °C) is not recommended for tank lining service.

Cleaning & Safety

Clean up

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

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.

Contact

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

Phones:

+58-212-6313092 | +58-414-3142752 | Fax: +58-212-6312441

SanyChem, Inc

600 N Pine Island Road #450 Plantation, FL 33324-1311
Phone +1-954-315-0252 / +1-800-432-0607 / Fax: +1-954-315-0280

Internet:

www.sanychem.com
sanychem@cantv.net
sales@sanychem.com

Made In The U.S.A.