



PRODUCT DATA SHEET
EpoSany® - 791 HB
High Performance Epoxy Topcoat

GENERIC TYPE:

Catalyzed Polyamide Epoxy. Part A and Part B mixed prior to application.

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.

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

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 excellent Tank Lining 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:

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

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	5 gallons Kit
EpoSany-791 HB	27.0 lbs. (12.3 kg.)	133.0 lbs. (60.4 kg.)
	1 gallon	5 gallons
SolvenSany # 252 Thinner	9.0 lbs. (4.1 kg.)	45.0 lbs. (20.4 kg.)
SolvenSany # 262 Thinner	9.0 lbs. (4.1 kg.)	45.0 lbs. (20.4 kg.)

FLASH POINT (Pensky/Martens Closed Cup) :

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

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

January 2001 replaces April 1998

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SPECIFICATION DATA

- **Theoretical Solids Content By Volume:**
EpoSany-791 HB 59% ± 2%
- **Theoretical Coverage Rate per Gallon (1½ 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.
- **Temperature Resistance (Non-Immersion):**
 Continuous: 200°F (93°C)
 Non-Continuous: 250°F (121 °C)
- **Recommended Dry Film Thickness per Coat :**
 4-6 mils (100 – 150 microns)
- **Color Standard in :**
EpoSany-791 HB Brick Red only
 White(100A1) and Gray (20002) and Gray (20003) 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

Exposure	Immersion	Splash & Spillage
Acids	NR	Good – Excellent
Alkalies	Excellent 150 °F (66 °C)	Excellent
Solvents	NR	Fair - Good
Sugar Solutions	Excellent 150 °F (66 °C)	Excellent
Water	Excellent 150 °F (66 °C)	Excellent
Salts	Excellent 150 °F (66 °C)	Excellent

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-1-82.

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

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 scuff sand glossy 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.

	2 Gal. Kit.	10 Gal. Kit
EpoSany-791 HB P/A	1 gallon	5 gallons
EpoSany-791 HB P/B	1 gallon.	5 gallons

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.

Mfr. & Gun	Fluid Tip	Air Cap.
DeVilbiss P-MBC or JGA	E	704
Binks #18 or #62	66	63 PB
I.D.	Approx. 0.070" I.D.	

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

Mfr. & Gun	Pump
DeVilbiss JGN-502	QFA-514 or QFA-519
Binks Model 700	Mercury 5C or B8-36 37:1
Graco 205-591	President 30:1 or BullDog 30:1

Use a 0.021" - 0.025" tip with 2100 - 2400 psi.
Filter: 60 mesh

Teflon packings are recommended and available from the pump manufacturer.

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

DRY TIME (Hours)

Surface Temp.	Dry To Handle	Between Coats	Immersion Service
40° F (4 °C)	02 days	03 days	*
60° F (16 °C)	16 hours	24 hours	14 days
75° F (24 °C)	08 hours	12 hours	07 days
90° F (32 °C)	04 hours	06 hours	03 days
110 °F (43 °C)	02 hours	03 hours	01 day

This time are 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.

APPLICATION CONDITIONS

	Material	Surfaces	Ambient	Humidity
Normal	60 – 95 °F (16 – 35 °C)	60 – 95 °F (16 – 35 °C)	60 – 95 °F (16 – 35 °C)	35 - 65 %
Minimum	40 °F (4 °C)	40 °F (4 °C)	40 °F (4 °C)	0 %
Maximum	90 °F (32°C)	110 °F (43 °C)	110 °F (43 °C)	95 %

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



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.

Cleanup & Safety

Cleanup

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



Internet:

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

