



PRODUCT DATA SHEET

EpoSany® - 790 HB

Epoxy High Build Coating

GENERIC TYPE:

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

DESCRIPTION: *EpoSany-790 HB* is a high performance, multipurpose, two-component chemically-cured epoxy flat coating for industrial or high performance applications. *EpoSany-790 HB* has excellent resistance to salts, waters, alkalies, and weathering. Has very good resistance to mild acids and solvents. Can be applied at a dry film thickness of 4-6 mils in one coat.

FEATURES:

- Excellent corrosion protection
- Excellent solvent and chemical resistance – resists splash and spillage of solvents, alkalis, salts, moisture, oils, greases, foodstuffs and detergents
- Low VOC
- Self-priming on steel or masonry
- Abrasion resistant
- High build/high solids coating

Limitations of Use: Exterior exposure will cause a color change, early dulling, and loss of gloss, but this does not affect protective properties. Epoxy coatings may yellow during application and cure if exposed to the combustion by-products of improperly vented fossil fuel burning heaters. Commonly finished with **SanyChem Coatings KethaPol-3500 HS** Urethane coating for maximum exterior color & gloss retention.

RECOMMENDED USES:

EpoSany-790 HB is ideal for structural steel, piping, tanks, and equipment in chemical, fertilizer, power plants, petroleum refineries, pulp and paper mills, water and sewage treatment plants and mining operations. Can also be used in the hard service areas of correctional facilities, schools, commercial and restaurant kitchens where a high performance architectural coating (HIPAC) is required. *EpoSany-790 HB* can be applied over **ZinCoat-400 HS** (Inorganic Zinc Primers). Particularly recommended as an exterior coating for tank farms and miscellaneous equipment where uniformity of color and resistance to salt, alkalies and weathering exposures is required.

NOT RECOMMENDED FOR:

Immersion Service, strong acid exposures or areas where chalking is undesirable.

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	10 gallons Kit
EpoSany-790 HB	27.0 lbs. (12.3 kg.)	132.0 lbs. (59.9 kg.)
SolvenSany # 262 Thinner	9.0 lbs. (4.1 kg.)	45.0 lbs. (20.4 kg.)
SolvenSany # 272 Thinner	9.0 lbs. (4.1 kg.)	45.0 lbs. (20.4 kg.)

FLASH POINT (Pensky/Martens Closed Cup) :

	Flash Point
EpoSany-790 HB P/A	14 °C
EpoSany-790 HB P/B	23 °C
SolvenSany # 262 Thinner	25 °C
SolvenSany # 272 Thinner	38 °C

SPECIFICATION DATA

• **Theoretical Solids Content By Volume:** **EpoSany-790 HB** 59% ± 2%

• **Theoretical Coverage Rate per Gallon: ***

EpoSany-790 HB	23.6 m ² /Lit. at 25 microns.
	4.7 m ² /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 :** Available in a variety of colors.

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

• **Flexibility:** Fair
• **Substrates:** Apply over suitable primed metal, concrete or other surfaces as recommended.

• **Gloss** Flat (chalks upon weathering)

• **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. May be applied directly over ZinCoat-400 HS (Inorganic Zinc Primers), weathered galvanizing, catalyzed epoxies, phenolics or others as recommended. 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-790 HB** is required when applying material over inorganic zinc primers to minimize bubbling.

TYPICAL CHEMICAL RESISTANCE

Exposure	Splash & Spillage	Fumes
Acids	Fair	Very Good
Alkalies	Excellent	Excellent
Solvents	Good	Very Good
Salt	Excellent	Excellent
Water	Excellent	Excellent

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.

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 with clean rags soaked in **SolvenSany # 252 Thinner** in accordance with SSPC-SP-1-82.

Steel: Apply over clean, dry recommended primers.

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**.

Concrete: Apply over clean, dry recommended primers.

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-790 HB P/A	1 gallon	5 gallons
EpoSany-790 HB P/B	1 gallon.	5 gallons

Thinning: May be thinned up to 25% by volume with **Solvensany # 262 Thinner**. For hot or windy conditions, use **SolvenSany # 272 Thinner**.

Potlife: 8 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 0.017" - 0.021" tip with 2100 - 2300 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.	Between Coats	Final Cures
50° F (10 °C)	03 days	1 week
75° F (24 °C)	18 hours	4 days
90° F (32 °C)	10 hours	2 days

This time are based on the recommended dry film thickness per coat. Higher film thickness will lengthen cure times.

APPLICATION CONDITIONS

	Material	Surfaces	Ambient	Humidity
Normal	65 – 85 °F (18 – 29 °C)	65 – 85 °F (18 – 29 °C)	60 – 90 °F (16 – 32 °C)	65 %
Minimum	50 °F (10 °C)	50 °F (10 °C)	50 °F (10 °C)	0 %
Maximum	90 °F (32°C)	140 °F (60 °C)	120 °F (43 °C)	85 %

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.



Roller: Use medium to long nap-roller depending on surface. Thin up to 25% by volume with **SolvenSany # 272 Thinner** for proper flow-out. 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

