



DeCara, Inc.
dba

Dynamis

1. PRODUCT NAME

EPO COAT H3H
100% Solids Epoxy Coating

100% SOLIDS
HIGH PERFORMANCE
EPOXY COATING

2. MANUFACTURER

DeCara, Inc. dba Dynamis
415 East Venice Avenue
Venice, Florida 34285

3. PRODUCT DESCRIPTION

BASIC USES: EPO Coat H3H is a solvent free, 100% solids, high build, tile-like epoxy coating. It exhibits outstanding durability, including both fresh and salt water immersion resistance, excellent general chemical resistance and a high gloss finish that is stain resistant and easily cleaned. EPO Coat H3H may be mixed and applied in three different ways, dependent upon conditions and requirements.

EPO Coat H3H is supplied as a pigmented, 2:1 mix coating that is non-flammable and almost odorless. It may be used in areas normally unsafe for systems containing solvents. It is employed as an extremely heavy duty floor coating where high build and self-leveling characteristics are a prime consideration.

EPO Coat H3H may be thinned where permitted with solvent for spray application, increased pot life or as a primer when required. Thinned mixture will be flammable.

EPO Coat H3H adheres to and performs excellently on concrete, most metals except aluminum, wood and masonry. Asphalt surfaces may also be coated with EPO Coat H3H and its solvent free formulation does not attack asphalt and will render the surface coated impervious to diesel fuel, gasoline, brake fluid and hydraulic fluids.

This coating is used to coat floors and walls in meat packing and beverage plants, paper and food and chemical processing facilities and hospitals.

The safety yellow and white versions of EPO Coat H3H provide extremely long wearing factory safety lines.

EPO Coat H3H cures overnight in most conditions. Treated floors may be opened for light foot traffic in approximately 24 hours, and three to five days should be allowed for heavy duty traffic. Seven days should be allowed for maximum chemical resistance and forklift parking.

LIMITATIONS: Surfaces which are to be coated must a) be at least 50° F, b) be clean and dry, and c) be structurally sound. Exterior applications will flatten over time without harm to the coating. Temperatures higher than 75° F or large volume mixes will shorten pot life. **New concrete must be cured a minimum of 28 days prior to coating.**

COLOR: Grey, white, tile red, beige, safety yellow and clear. Special colors available upon request.

GLOSS: High gloss.

APPLICABLE STANDARDS: When repairing, coating or resurfacing floors and other structural surfaces subject to incidental food contact in establishments operating under the Federal Meat and Poultry Inspection Program notify FSIS inspector prior to installation. Meets California Rule 443.1 and 1113, as supplied.

COVERAGE: EPO Coat H3H will yield approximately 180 sq. ft. per gallon dry film thickness when applied 10 mils thick. Vertical applications are normally applied in two coats.

4. TECHNICAL DATA

RESIN PROPERTIES

Viscosity	700-1000 cps
Pot life (¾-Gal.Unit @ 75° F)(100% solids)	20-30 minutes
DO NOT MIX MORE THAN 1.5 GALS. AT ONE TIME	
Pot life (¾-Gal. Unit @ 75°F)(thinned)	1-1/2 – 2 hours
Dry Time	12-24 hours
Recoat Time	12-24 hours
Shore D Hardness	84
Tensile Strength psi	7300
% Solids by Volume	100%
Operating Temperature Range	-40° F to 250° F
Gloss (60° meter)	80 +

CHEMICAL RESISTANCE: EPO Coat H3H resists corrosion due to spillage of most generally used acids, alkalies, salts and organic compounds.

Alkalies:	Caustic, pot ash, ammonia, lime, soda ash and others.
Mineral Acids:	Sulphuric acid, phosphoric acid, hydrochloric acid.
Organic Solvents:	Petroleum, coal tar thinners, turpentine and others.
Salts:	Alkalines, acid and neutral.
Oxidizing Acids and Salts:	Up to 15% nitric, chromic peroxide

Water: (spillage)	and bleach.
Water (immersion):	Tap, distilled, di-ionized.
Foods and Organic Compounds:	Fresh and salt.
	Sugar, mineral oils and greases,
	vegetable and animal fats and oils.
	Cheese, Detergent, soap.
Beverages:	Milk, fruit and vegetable juices.

5. INSTALLATION

PREPARATORY WORK: Surfaces must be free from paint, grease, oil, laitance, and other contaminants prior to application. This may be done by acid cleaning, shotblasting, sandblasting, scarifying, detergent cleaning or grinding as applicable. New concrete must be free from laitance, sealers, curing compounds, etc. New concrete may be cleaned in the same manner as old concrete where required.

METHODS: EPO Coat H3H may be applied by brush, notched squeegee, roller or spray. Notched squeegee applications should be backrolled with an all-purpose 1/4" or 3/8" nap roller. Roller applications should be the same nap size.

In general, no primer is required for applying EPO Coat H3H to most surfaces. Where conditions permit the use of a solvent containing primer, EPO Seal 100 or EPO Coat H3H reduced 50% with Xylene, or Acetone in California only, should be used to increase adhesion to concrete or wood surfaces which exhibit a tendency to dust after cleaning, are extremely porous, or where the concrete has an unusually hard finish.

Normal spray equipment should consist of a 30 to 35 to 1 ratio airless pump at approximately 60 to 90 lbs. pressure. The air supply should be a compressor having a capacity of approximately 100 cfm. The spray tip should be 20 to 35 thousandths, depending upon application temperature. Other spray equipment may be substituted if capacities are large enough, or EPO Coat H3H may be reduced, when conditions permit, with Xylene, or Acetone only in California, to facilitate spraying and extend pot life.

APPLICATION: Two coats (not including the primer coat, if used) of EPO Coat H3H are recommended for most surfaces. Pitted or scarred concrete may require an initial squeegee coat to fill voids prior to application of two heavy build roller or spray coats. Higher temperatures and larger mix quantities will shorten pot life. Adding solvent (Xylene) will increase pot life.

MIXING: Stir each component separately before combining. Mixing is done by volume as follows:

100% Solids, as supplied – Non-Flammable: EPO Coat H3H is mixed two parts component A to one part component B, by volume. Mixing should be done with an electric drill and Jiffy mixer. Care should be taken to scrape the sides and

bottom of mixing containers. Mix thoroughly for 2-3 minutes. Do not mix more than can be used in 20-30 minutes.

75% Solids –Flammable (spray or extended pot life applications): Mix two parts Component A, one part Component B and one part Xylene, or Acetone only in California. Mixing should be done with an air drill and Jiffy mixer to avoid sparks. Care should be taken to scrap the sides and bottom of mixing containers. Mix thoroughly for 2 – 3 minutes. Working pot life of flammable mix is 1 – 2 hours.

50% Solids – Flammable (concrete primer): Mix two parts Component A to one part Component B and two parts Xylene, or Acetone only in California. Mixing should be done with an air drill and Jiffy mixer to avoid sparks. Care should be taken to scrap the sides and bottom of mixing containers. Mix thoroughly for 2 – 3 minutes. Working pot life of flammable mix is 1 – 2 hours.

EQUIPMENT CLEAN-UP: Clean tools and equipment immediately with Methyl Ethyl Ketone (MEK) or Acetone only in California. Do not allow epoxy to set hard on tools and mixing equipment.

PRECAUTIONS: EPO Coat H3H is not flammable; however, the cleaning and reducing solvents are. Keep solvents away from heat, open flame and pilot lights. Avoid prolonged contact with skin and breathing of vapor or spray mist from either epoxy or solvents. Use both with adequate ventilation. Keep solvent and coating out of reach of children. Thin only where regulations or conditions permit. Thinned mixes will be flammable. **Keep product from freezing. Store at room temperature.**

6. AVAILABILITY

EPO Coat H3H is available from:

DeCara, Inc. dba Dynamis
415 E. Venice Ave.
Venice, FL 34285
941/488-3999
800/828-8929
FAX 941/488-0747
www.dcdynamis.com

7. GUARANTEE

The manufacturer warrants that the material meets specifications listed, and limits any warranty to the replacement of material only.

The information contained in this specification is based on data obtained by our own research and is considered accurate. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use of this data or product. This information is furnished and EPO Coat H3H is sold upon the condition that the person receiving it shall make his own test to determine the suitability of the material for his particular purpose.

Revised – 08/16