



DeCara, Inc.
dba

Dynamis

1. PRODUCT NAME

EPO JOINT SEALANT L.T.C.

EPOXY
CONTROL JOINT AND
CRACK SEALER
LOW TEMPERATURE/
FAST SET

2. MANUFACTURER

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

3. PRODUCT DESCRIPTION

BASIC USES: EPO Joint Sealant L.T.C. is a 100% solids, non-shrinking, semi-rigid epoxy compound for the sealing of control joints, construction joints and cracks in concrete floors. EPO Joint Sealant L.T.C. is designed for application in control joints whose slab temperature is 28° F to 55° F. This sealant resists the chipping of joint edges caused by steel wheeled or heavy traffic on industrial floors while providing excellent flexibility and impact resistance. The high percentage of elongation of EPO Joint Sealant L.T.C. allows for the proper function of control joint systems and repair of spalled or broken joint edges.

EPO Joint Sealant L.T.C. is furnished in a self-leveling, pour grade which cures overnight, ready for use in most conditions. It is most suitable for application to dry surfaces, but will cure in damp or moist conditions

LIMITATIONS: Joints or cracks to be sealed should a) be at least 28° F or warmer, b) be clean and free of ice, c) be structurally sound and d) adequate ventilation must be provided.

EPO Joint Sealant L.T.C. should not be used in joints subject to extreme movement or as a replacement for flexible, soft joint sealants in true expansion joints.

COLOR: Concrete Grey

APPLICABLE STANDARDS: When repairing, coating or resurfacing floors and other structural surfaces subject to incidental food contact operating under the Federal Meat and Poultry Products Inspection Program, notify FSIS inspector prior to installation.

COVERAGE:

JOINT SIZE	LIN. FT./ PER GAL.	JOINT SIZE	LIN. FT./ PER GAL.
1/8" x 3/4"	200	3/16" x 3/4"	135
1/8" x 1"	150	3/16" x 1"	100
1/8" x 1 1/4"	125	3/16" x 1 1/4"	85
1/8" x 1 1/2"	100	3/16" x 1 1/2"	70
1/8" x 1 3/4"	85	3/16" x 1 3/4"	60
1/8" x 2"	75	3/16" x 2"	50
1/4" x 3/4"	100	3/8" x 1"	50
1/4" x 1"	80	1/2" x 1"	40
1/4" x 1 1/4"	60	3/4" x 1"	25
1/4" x 1 1/2"	50	1" x 1"	20
1/4" x 1 3/4"	45		
1/4" x 2"	40		

4. TECHNICAL DATA

RESIN PROPERTIES

Viscosity	500 - 1500 cps
Hardness, Shore D	± 50
Hardness, Shore A	± 80
Tensile Strength, psi	400 – 600
% Elongation	± 5%
Pot Life, 110 Gram Mass	2 – 3 Hrs., @ 28° F
Adhesion to Concrete	200 psi, min.
Compressive Yield	500 min.
Shrinkage	Less than 1%
Solids Content	100%
Mix Ratio	1:1

CHEMICAL RESISTANCE: EPO Joint Sealant L.T.C. resists corrosion due to spillage of most generally used acids, alkalis, 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 and bleach.
Water:	Tap, distilled, di-ionized.
Foods and Organic Compounds:	Sugar, mineral oils and greases, vegetable and animal fats and oils. Cheese. Detergent, soap.
Beverages:	Milk, fruit and vegetable juices.

5. INSTALLATION

PREPARATORY WORK: No primer is required prior to installing EPO Joint Sealant L.T.C. Cracks, saw cuts and construction joints in concrete should be ground out, chipped, swept, washed or sandblasted and air blown as needed to provide as clean and dry a surface as possible.

METHODS: EPO Joint Sealant L.T.C. may be hand poured or gunned into joints and cracks as applicable. This sealant will flow and self level and should be installed to full depth of joint (no backer rod is to be used). Joints with cracks entirely through the slab may require that a small amount of sand be put in joint at the point of seepage and material be allowed to harden. Low spots will require additional applications. Slabs with through cracks which are accessible from the underside may require underside sealing with EPO Patch LTC or EPO 114 Adhesive Gel prior to filling from top.

EPO Joint Sealant L.T.C. will reach initial cure in approximately 6 to 8 hours at 75° F, but should be allowed to cure thoroughly for approximately 24 hours before returning to use under steel or hard wheeled traffic. Lower temperatures will require longer cure times. Rubber tired or foot traffic may be resumed as soon as sealant is hard and tack free to touch. Concrete should be allowed to cure for a minimum of 30 to 60 days before installing EPO Joint Sealant L.T.C.

APPLICATION: Joints and cracks should be poured completely full, and a slight overpour is recommended for complete edge protection of saw cut edges. Excess material may be removed by wiping with suitable solvent such as lacquer thinner or cut off with razor knife, before EPO Joint Sealant L.T.C. has hardened. Joint edges may be taped with masking tape prior to application for maximum uniformity and neatness; however, tape should be removed before sealant has hardened. Hardened excess sealant may be removed by grinding.

MIXING: Stir each component separately prior to combining. EPO Joint Sealant L.T.C. should be mixed with a low speed electric drill and mixer or hand mixed thoroughly with mixing paddle for 3 to 5 minutes.

EPO Joint Sealant L.T.C. is mixed one part Component A to one part Component B by volume. Do not mix more than may be applied in 2 hours at 75° F.

EPO Joint Sealant L.T.C. should be mixed neat with no additional fillers, except in conditions where floors have extreme slopes. Under these conditions, sealant may have a tendency to run. Approximately one volume of fine silica sand should be added. Fine silica sand should be stirred or mixed into mixed sealant with a low speed electric drill and mixed until a uniform, lump free mix is obtained.

EQUIPMENT CLEAN UP: Clean tools and equipment immediately with Methyl Ethyl Ketone(M.E.K.) or Acetone only in California.

PRECAUTIONS: EPO Joint Sealant L.T.C. is not flammable; however, the cleaning solvent is. Keep solvent away from heat or open flame. Avoid pilot lights. Avoid prolonged contact with skin and breathing of vapor or mist from either epoxy or solvent. Use both with adequate ventilation. **DO NOT ALLOW PRODUCT TO FREEZE. STORE AT ROOM TEMPERATURE.** Keep solvent and sealant out of reach of children.

6. AVAILABILITY

EPO Joint Sealant L.T.C. is available from:

DeCara, Inc. dba Dynamis.
415 East Venice Avenue
Venice, Florida 34285
941- 488-3999
800-828-8929
FAX – 941- 488-0747
www.dcdynamis.com

7. GUARANTEE

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

NOTE:

The information contained in this technical brochure 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 the product EPO Joint Sealant L.T.C. sold upon the condition that the person receiving it shall make his own test to determine the suitability of the material for his own purpose.

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