

Cardolite® LITE 2002LP

Epoxy Curing Agent

Technical Datasheet

DESCRIPTION

Cardolite LITE 2002LP is a solvent and benzyl alcohol free, very low viscosity, light color phenalkamine curing agent suitable for solvent free epoxy coating applications. It is specifically designed to have a good balance between cure time and pot life, and offer good durability, edge retention, and flexibility. Like other Cardolite phenalkamines, this product has excellent rapid cure properties, even at low temperatures, and provides good adhesion on wet or otherwise unprepared surfaces. Heavy duty industrial, protective, and marine service coatings can benefit from this product's outstanding water resistance and corrosion protection. This product is almost identical to LITE 2002, except with a longer potlife and slower cure.

PROPERTIES

PROPERTY	SPECIFICATION	TEST METHOD
Color (Gardner)	≤ 12	ASTM D1544
Viscosity @ 25°C (cPs)	475 - 700	ASTM D2196
Amine Value (mg KOH/g)	345 - 370	ASTM D2074
Volatile Loss (% weight)	≤ 2.0	ASTM D2369-98
Density @ 25°C (kg/L) (lbs/gal)	0.98 - 1.00 8.21 - 8.31	ASTM D1475

PROPERTY	TYPICAL VALUE	TEST METHOD
Appearance	Light yellow liquid	Visual
Theoretical Active Hydrogen Equivalent (AHEW) ¹	104	Calculated
Flash point	> 110°C / 230°F	ASTM D93
Recommended Use Level (phr, EEW 190)	50	-
Shelf Life (Months)	12	-

Typical properties are not to be construed as specifications

¹ Based on total product weight

APPLICATIONS

Cardolite LITE 2002LP is suitable for solvent free surface tolerant marine, industrial, and protective coatings such as: primers, direct to metal mastics, mid-coats, tank linings, pipe coatings, and transportation primers. It can be used for coating applications under cold and humid conditions, even over damp and poorly prepared surfaces. This product's fast cure and good hardness make it ideal for applications requiring fast return to service. Its ability to cure over a wide temperature range and non-critical mix ratio can bring coatings broad application latitude. Applications requiring good initial color will benefit from this product's light wet color.

ADVANTAGES

- Excellent combination of rapid cure and long pot-life at both ambient and low (<5°C/40°F) temperatures
- Continues to chemically crosslink at very low temperatures (<0°C/32°F)
- Low viscosity for excellent workability
- Light wet color for broad color range
- Good adhesion to poorly prepared surfaces
- Moisture tolerant during cure
- Excellent early water resistance
- Good chemical resistance
- Good flexibility and edge retention
- Compatible with most epoxy resins and their blends
- Superior corrosion resistance mitigating the need for anti-corrosion pigments
- Non-critical mix ratio
- No induction time required
- Non-toxic
- Based from natural, renewable, non-food chain raw material feedstock

CURE PROPERTIES

	FORMULATION	TEST METHOD
Liquid Epoxy Resin (pbw, EEW 190)	100	
Cardolite LITE 2002LP (pbw)	50	
Mix viscosity @ 25°C (cPs)	3,450	
Gel time, 50 g @ 25°C (min)	85	NTM-15
Thin film dry times, 8 mils (200 micron)		
@ 25°C (77°F) (hrs hard/through)	7/11	ASTM D5895
@ 5°C (41°F) (hrs hard/through)	21/36	ASTM D5895
@ 0°C (32°F) (hrs hard/through)	39/46	ASTM D5895
Film appearance @ 10°C, 92% RH	Hazy	Visual

REGULATORY STATUS

Please refer to the material safety data sheet (MSDS). Specific information regarding chemical inventory listing can be obtained from your local sales representative.

SAFETY PRECAUTIONS

Please refer to the material safety data sheet (MSDS). Copies of the MSDS can be requested on the Cardolite website or via your local sales representative.

STABILITY AND STORAGE

Cardolite products may absorb moisture and carbon dioxide when left in open containers, which could result in increased viscosity, discoloration, reduction of reactivity, and/or crystallization of the products. These products should be kept tightly sealed in their original containers when not in use, and stored in a cool, dry place.

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