Cardolite® LITE 2100
CNSL Epoxy Modifier
Preliminary Technical Datasheet

DESCRIPTION

Cardolite LITE 2100 is a low viscosity, low color, cashew nutshell liquid modified hydrocarbon resin designed for use as an epoxy modifier in coatings, adhesives and composites. LITE 2100 provides excellent dilution efficiency and improves compatibility and flexibility of the epoxy system while maintaining fast hardness development, very good chemical resistance and corrosion protection, and excellent adhesion even to unprepared surfaces.

PROPERTIES

PROPERTY	SPECIFICATION	TEST METHOD
Color (Gardner)	≤ 4	ASTM D1544
Volatile Content (% weight)	≤ 1	ASTM D2369-98

PROPERTY	TYPICAL VALUES	TEST METHOD
Viscosity @ 25°C (cPs)	450 - 750	ASTM D2196
Density @ 25°C (kg/L) (lbs/gal)	0.98 8.23	ASTM D1475
Recommended Use Level (% resin)[1]	≤ 30	
Shelf Life (Months)	12	

[1]Optimum use level varies with application

APPLICATIONS

LITE 2100 enables high solids and solvent free protective and industrial coatings and construction adhesives such as grouts, self-levelers and mortars. LITE 2100 shows better dilution efficiency and less effect on dry time than typical phenol modified hydrocarbon resins, and it can increase hardness development of the coating while providing improved flexibility and impact resistance. The high hydrophobicity of this product results in excellent water and moisture resistance, and more importantly, excellent corrosion protection on immersed and vapor exposed surfaces. Laboratory evaluations demonstrated LITE 2100 exhibits good adhesion even to rusted metal substrates. Moreover, LITE 2100 shows very good UV resistance with excellent gloss retention for use in lighter color coatings. This renewable product can be used to replace aromatic hydrocarbon modifiers that are based solely on petrochemicals.

ADVANTAGES

- Excellent dilution power
- Fast hardness development
- Excellent flexibility and wetting
- Good adhesion to poorly prepared surfaces
- Moisture tolerant
- Excellent water resistance
- Good color and gloss retention
- Improves compatibility of epoxy system
- Superior corrosion protection
- Very good chemical resistance
- Non-toxic
- Based from natural, renewable, non-food chain raw material feedstock

CONTACT INFORMATION

Cardolite

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DISCLAIMER & COPYRIGHT

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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