

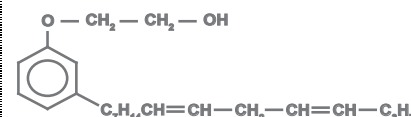
Cardolite[®] LITE 2020

Multipurpose Resin Modifier

Technical Datasheet

DESCRIPTION

Cardolite LITE 2020 is a low viscosity multipurpose resin modifier designed for use in coatings, adhesives, and other applications. The long hydrophobic aliphatic side chain of the cardanol molecule gives this product a very low viscosity and provides excellent early water resistance and corrosion protection. Used as an epoxy diluent, LITE 2020 enables high solids or solvent free formulations with enhanced workability without sacrificing other performance properties. This product also has the ability to react and be used in alkyds, urethanes, and acrylics.



CHEMICAL STRUCTURE

PROPERTIES

PROPERTY	SPECIFICATION	TEST METHOD
Color (Gardner)	≤ 14	ASTM D1544
Viscosity @ 25°C (cPs)	30 - 115	ASTM D2196
pH	6.7 - 9.7	ASTM E70
Solids (% weight)	≥ 97	ASTM D2369-98
Free Cardanol (%)	≤ 2.5	

PROPERTY	TYPICAL VALUE	TEST METHOD
Appearance	Orange brown liquid	Visual
Hydroxyl Value	170	ASTM D1957
Iodine Number	188	ASTM D2075-92
Density @ 25°C (kg/L) (lbs/gal)	0.963 8.03	ASTM D1475
Flash point	> 118°C / 244°F	ASTM D93
Recommended Use Level (% of total resin weight)	≤ 20	-
Shelf Life (Months)	24	-

Typical properties are not to be construed as specifications

APPLICATIONS

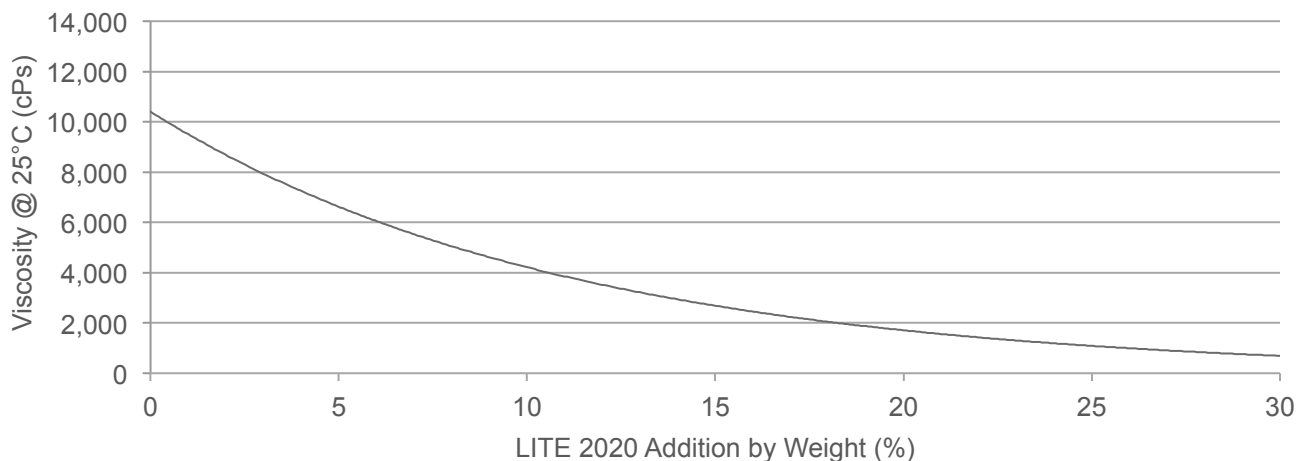
Cardolite LITE 2020 was designed as a formulation tool to reduce VOC levels and viscosity on coating systems used in heavy duty marine, protective, industrial, and floor coatings. Although higher in viscosity than some other modifiers, the structure of this product gives excellent dilution efficiency to help rapidly reduce viscosity for improved pigment wetting, flexibility, and general application properties. Coating physical properties such as water resistance, corrosion protection, color stability, chemical resistance, and gloss are not significantly compromised with the addition of LITE 2020, and the product can be added in either component of multi-part formulations.

ADVANTAGES

- Lowers viscosity while maintaining performance
- Preserves chemical and water resistance
- Good dilution effect
- Adds flexibility
- Reduces high shear
- Compatible and usable in a variety of coating chemistries
- Improves pigment wetting
- Reacts with urethanes, alkyds, and acrylic resin
- Low volatility and high flash point
- Non-toxic
- Based from natural, renewable, non-food raw material feedstock

DILUTION PROPERTIES

LITE 2020 DILUTION CURVE WITH LIQUID EPOXY RESIN (EEW=190)



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.

CONTACT INFORMATION



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