Cardolite[®] Ultra LITE 2020 Multipurpose Resin Modifier Preliminary Technical Datasheet

DESCRIPTION

Cardolite Ultra LITE 2020 is a low viscosity, solvent-free 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, high viscosity solvent or solvent free formulations can achieve enhanced workability and higher solids without sacrificing other performance properties using this product. This product also has the ability to react and be used in alkyds, urethanes, and acrylics.

CHEMICAL STRUCTURE

PROPERTIES

PROPERTY	Typical Values	Test Method
Color (Gardner)	≤ 2	ASTM D1544
Viscosity @ 25°C (cPs)	≤ 115	ASTM D2196
рН	6.7 - 9.7	ASTM E70
Free Cardanol (%)	≤ 1.0	
Hydroxyl Value	170	ASTM D1957
lodine 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	-

Typical properties are not to be construed as specifications

APPLICATIONS

Cardolite Ultra LITE 2020 was designed as a formulation tool to reduce VOC levels and viscosity of coating and adhesive systems. 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. Physical properties such as water resistance, corrosion protection, color stability, chemical resistance, and gloss are not significantly compromised with the addition of Ultra LITE 2020, and the product can be added in on either component side 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

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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