ELEMENTIS
A global specialty chemicals company

Enhanced Performance Through Applied Innovation

THIXATROL® UV 1104

Rheological Additive for UV Cure Systems

GENERAL INFORMATION

THIXATROL UV 1104 was designed for use in both oligomer and monomer based formulations that contain pigments and fillers. The smaller particle size grades will generally result in improved structure development and superior additive efficiency.

CHEMICAL & PHYSICAL PROPERTIES

Composition	polyester
Color / Form	dark amber / viscous liquid
Density	0.87 g/cm³
Non-volatiles	100%

These are typical properties not to be used for specification purposes.

APPLICATIONS

- Automotive Refinish Primers
- General Metal Coatings Primers and Topcoats
- Industrial Wood Finishes, Primers and Sealers
- Plastic Coatings

KEY PROPERTIES

- 100% active liquid, easy incorporation
- Seed resistant, reduces processing restrictions
- Develops strong low shear viscosity, improves suspension of pigments and fillers
- Very shear thinning, provides excellent sprayability
- Temperature stable rheology, superior thermal sag resistance
- Zero VOC, improves regulatory compliance

INCORPORATION

THIXATROL UV 1104 should be added as the last ingredient in the pigment grind prior to the dispersion phase of the process.

Recommended Incorporation Temperatures

THIXATROL UV 1104 requires only a minimum temperature of 120F (49C) for >15 minutes with no upper limit for complete activation and dispersion when incorporated in a pigment grind containing pigments and /or fillers. While some oligomers and photoinitiators require an elevated temperature to melt and liquify, this will pose no negative effects on **THIXATROL UV 1104** as long as the minimum temperature is met or exceeded.

Post-addition

THIXATROL UV 1104 can be added to a finished system following the required temperature guidelines and dispersion is accomplished with a Cowles or High Speed blade. Due to generally lower viscosity final product, dispersion may require more lengthy dwell times as post add temperatures decrease.

LEVELS OF USE

Typical addition levels range from 0.2 – 0.6% by weight of the total formulation. Optimum loading levels will be determined by the required application and composition of the system. A loading ladder is always suggested to determine optimum levels and performance.

HEALTH AND SAFETY

Before using this product please consult our Safety Data Sheet (SDS) for information on safe handling and storage. The SDS can be found on the company website.

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STORAGE RECOMMENDATIONS

Store in a cool, dry location.

Store above 40 °F (4 °C).

Keep partially used container well sealed to prevent volatile content loss.

SHELF LIFE

THIXATROL UV 1104 has a shelf life of 4 (four) years from date of manufacture.

QUALITY ASSURANCE

Since 1992 the company is a holder of the ISO 9001 / ISO 9002 certificates, which guarantees that all operations are conducted according to the stipulated standards.

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