

THIXATROL® PLUS

Rheological Additive

Cost Effective Seed-Resistant Organic Thixotrope for Solvent-Based Systems

GENERAL INFORMATION

THIXATROL PLUS is a 100% active, seed resistant organic rheological additive. **THIXATROL PLUS** provides viscosity, thixotropy and sag control in both conventional and high build systems.

CHEMICAL & PHYSICAL PROPERTIES

Composition	proprietary organic
Color / Form	fine off-white powder
Density (gm/cm ³)	1.04
(lbs./gal)	8.33

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

APPLICATIONS

- Industrial coatings
- High solids aromatic paints
- Chlorinated rubber primer and topcoats
- Vinyl topcoats
- Aromatic traffic paints
- Epoxy polyamide topcoats
- Polyester coatings
- Adhesives and sealants
- Two component polyurethane systems

KEY PROPERTIES

- Provides viscosity control, thixotropy and excellent sag resistance.
- Is seed-resistant and allows high temperature processing, packaging and storage.
- Exhibits significantly improved intercoat adhesion properties compared with earlier diamide based thixotropes.
- Is a cost effective 100% active powder
- Has a broad tolerance to various solvents, including aliphatics, aromatics, ketones and esters.

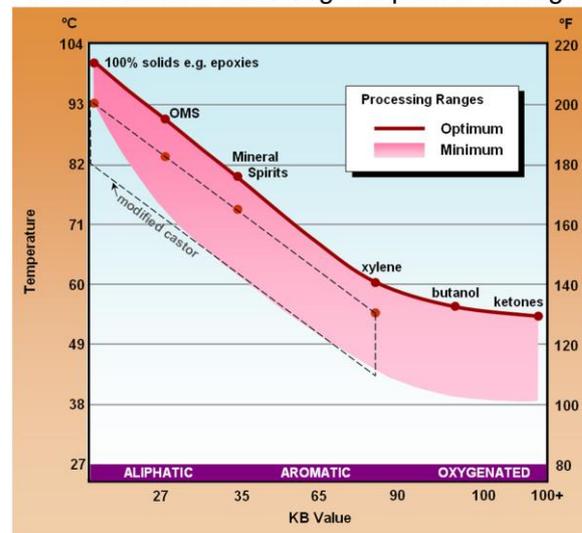
INCORPORATION

The improved seed-resistance of **THIXATROL PLUS** rheological additive makes paint manufacturing easier and less expensive.

THIXATROL PLUS has specific processing temperature and dwell time requirements necessary to develop optimum rheological efficiency. It should be introduced at the beginning of the manufacturing process to guarantee sufficient wetting and dwell time for complete activation. During the pigment dispersion stage, the combination of dispersion shear and processing within the appropriate temperature range will assure complete dispersion and activation of **THIXATROL PLUS**.

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Recommended Processing Temperature Ranges



Recommended processing temperatures are:

Aliphatic	66 - 71 °C	150 - 160 °F
Aromatic	49 - 54 °C	120 - 130 °F
Oxygenated	43 - 49 °C	110 - 120 °F

* within each processing temperature range, as KB values and/or solubility parameter decrease, processing temperatures must be increased. The converse is also true. A temperature ladder series is recommended to determine optimum processing temperature for any given solvent.

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THIXATROL® PLUS

Order of Addition

Typical high speed disperser

1. Resin / solvent
2. **THIXATROL PLUS**
3. Surfactants
4. Pigments

Process for 15 - 20 minutes within the correct temperature range.

5. Letdown
mix until temperature is below processing minimum

SAFEGUARDS

We recommend that key performance properties of the final system be thoroughly tested under application conditions.

Organic additives with this type of chemistry may under certain circumstances lead to intercoat adhesion problems, particularly when the applied paint film is spray applied and force dried. For critical applications we recommended the use of THIXATROL MAX.

LEVELS OF USE

Typical levels of use for effective flow control range from 0.5% to 2.0% of the total system weight. If only the antissettling activities of the system require improvement, 0.2% to 0.5% may be sufficient.

The optimum level of **THIXATROL PLUS** will vary depending on the type of system. When formulating a new system, a loading ladder study is recommended to determine the precise level of additive needed.

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.

STORAGE RECOMMENDATIONS

THIXATROL PLUS should be kept in a cool, dry location. Avoid stacking pallets in hot climates.

SHELF LIFE

THIXATROL PLUS 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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