

## THIXATROL® SR

### Non-seeding organic thixotrope for solvent-based systems

#### GENERAL INFORMATION

**THIXATROL SR** additive is a non-seeding, highly efficient, 30 % active, liquid organic rheological additive for aromatic and some oxygenated solvent-based systems or blends of these solvents.

**THIXATROL SR** effectively eliminates seeding risks.

**THIXATROL SR** thickened paints have no upper processing temperature limit.

**THIXATROL SR** is a very efficient rheological additive and provides viscosity, thixotropy and excellent sag resistance.

The combination of high efficiency and easy processing makes **THIXATROL SR** an attractive alternative to conventional rheological additives.

#### CHEMICAL & PHYSICAL PROPERTIES

Composition	low-molecular-weight polyester amide
Color / Form	amber / liquid
Density, liquid	0.88 g/cm <sup>3</sup>
Density, solid	0.99 g/cm <sup>3</sup>
Solids (non-volatile)	30 % + 1 %
Flash point (closed cup)	49 °C (120 °F)
Solvents	aromatic 150/ cyclohexanol

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

#### APPLICATIONS

In **THIXATROL SR** additive is suitable for use in systems such as high-build industrial coatings, maintenance and architectural systems and high-solids coatings.

Typical coatings include:

- Air-drying aromatic paints
- High-solids aromatic paints
- Chlorinated rubber primers and topcoats
- Vinyl topcoats
- Traffic paints

**THIXATROL SR** is not suitable for use in epoxy polyamide systems containing shorter-chain alcohol solvents.

**THIXATROL SR** is an associative rheological additive requiring pigments or extenders to develop its thixotropic structure. Due to this characteristic, **THIXATROL SR** is not suited for clear systems.

#### KEY PROPERTIES

- provides viscosity control, thixotropy and excellent sag resistance
- is non-seeding and allows:
  - high processing temperatures without seeding
  - long processing time without seeding
  - packaging a completed paint batch at high temperatures without seeding
  - storage of finished paint in hot warehouses without seeding
- is an easy-to-handle liquid
- reduces brush drag and produces excellent paint application properties

#### INCORPORATION

**THIXATROL SR** additive makes paint manufacturing easy. Its performance is not adversely affected by high processing temperatures, rapid cooling, extended processing times or letdown with cold solvents. The paint manufacturer need not be concerned with upper temperature limits or careful cooling of the finished product.

**THIXATROL SR** should be added into the grind paste immediately following the pigment and/or extenders. Disperse for 15-30 minutes on high-shear equipment at or above the minimum activation temperature.

Three elements are essential to attain the best result when using **THIXATROL SR** :

1. Minimum activation temperature must be reached for the solvent system being used:
 

Oxygenated solvents	38 °C (100 °F)
Aromatic solvents	43 °C (110 °F)

These temperatures can be easily attained under normal grind conditions.

For full development of the rheological properties the letdown must be added to the hot (within activation temperature range) mill base.

2. Good shear is required.

**THIXATROL SR** requires a well-formulated mill-base for proper activation. For best results mill-bases should be optimized for good particle-to-particle attrition. Since **THIXATROL SR** is 70 % solvent, the mill-bases should be adjusted to compensate for this additional solvent.

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3. 15 to 30-minute dwell time is required.

If good shear conditions are not possible, higher temperature may be necessary for full activation. When cooled without agitation, paints containing **THIXATROL SR** may develop false body. This is a temporary, low-shear-rate viscosity increase. If false body occurs, simple mixing of the paint will break down this viscosity to its true level.

4. Letdown addition is possible.

**THIXATROL SR** can be added directly after the pigment-milling step to the letdown of aromatic and oxygenated solvents.

It is added to the hot mill-base under low to moderate shear conditions, 1500 rpm on a high-speed disperser. Minimum temperature is to be maintained at or above the recommended level for the specific solvent type.

### LEVELS OF USE

Typical use levels in coatings are 1.0 % to 4.0 % (as delivered) based on the total system weight. The optimum level of **THIXATROL SR** 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 SR** should be kept in a cool, dry location. Store above 40 °F (4 °C).

### SHELF LIFE

**THIXATROL SR** has a shelf life of 2 (two) 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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V01 Aug. 2018

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