

## Rheological Additive

### Low temperature activation and highly effective organic thixotrope for solvent-borne and high solids Systems

#### GENERAL INFORMATION

THIXATROL® PM 8056 is a 100% active, seed resistant organic rheological additive. THIXATROL® PM 8056 provides high viscosity, thixotropy and thick layer sag control in high build systems that contain little solvent or are solvent-free.

#### PHYSICAL PROPERTIES

Composition	proprietary organic
Color / Form	fine off-white powder
Bulk density	0.25 g/cm <sup>3</sup> 2.08 lb/gal
Density	1.02 g/cm <sup>3</sup>
Melting point	120 - 130 °C
Mean particle size	maximum 6 micron

#### APPLICATIONS

- Industrial coatings
- Corrosion protective 2C epoxy primers
- Two component polyurethane top coat systems
- Two component solvent-free epoxy systems

#### KEY PROPERTIES

- Provides viscosity control, thixotropy and excellent very thick layer sag resistance.
- Is seed-resistant and allows low temperature activation, - processing, and packaging.
- Is a cost effective 100% active powder that is highly active at already low loading levels.
- Has a broad compatibility to various solvents.
- Show no intercoat adhesion problems when overcoated with a topcoat.

- No negative influence on corrosion properties.
- Excellent Mix(stress) stability of finished paint systems

#### INCORPORATION

The low temperature activation and broad solvent compatibility of THIXATROL® PM 8056 rheological additive makes sealant and paint manufacturing faster, easier and less expensive.

THIXATROL® PM 8056 has specific processing temperature and dwell time requirements in order to develop optimum properties.

For complete activation, THIXATROL® PM 8056 should be introduced at the beginning of the manufacturing process in order to obtain sufficient wetting and dwell time. THIXATROL® PM 8056 will benefit from the temperature developed during the pigment dispersion phase to ensure maximum performance.

Recommended activation temperatures for high solids protective coatings (epoxy primers, polyurethane topcoats) are 40 °C - 70 °C (104 °F - 158 °F)

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## Order of Addition

### Typical high speed dissolver

1. Resin (and solvent if desired)
2. THIXATROL® PM 8056
3. Pigments and extenders
4. Mix and disperse under 10 -18 m/s tip speed until the desired minimum activation temperature is reached.
5. Continue with let down under moderate mixing conditions.

## LEVELS OF USE

Typical levels of use for effective sag- and flow control range from 0.5 % to 2.0% of the total system weight.

The optimum use level of THIXATROL® PM 8056 will vary depending on the chemistry of the system.

When formulating a new system, a loading ladder study is recommended to determine the precise level of additive needed, the optimum activation temperature and the optimum stirring conditions.

## HANDLING AND SAFETY

More detailed information on handling and safety for each product is included in the relevant material safety data sheet, available for each product.

MSDS can be found on the company website at

[www.elementis-specialties-asia.com](http://www.elementis-specialties-asia.com).

## STORAGE RECOMMENDATIONS

THIXATROL® PM 8056 should be kept in a cool, dry location. Avoid stacking pallets in hot climates.

## SHELF LIFE

THIXATROL® PM 8056 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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