

Rheological Additive

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

GENERAL INFORMATION

THIXATROL® AS 8053 is a 100% active, seed resistant organic rheological additive. THIXATROL® AS 8053 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 ³ 2.08 lb/gal
Density	1.02 g/cm ³
Melting point	120 - 130 °C
Mean particle size	maximum 5 micron

APPLICATIONS

- Hybrid sealants, both MSP and SPUR
- Industrial coatings
- Corrosion protective high solids epoxy primers
- Two component high solids polyurethane top coat systems

KEY PROPERTIES

THIXATROL® AS 8053 rheological additive

- 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.

INCORPORATION

The low temperature activation of THIXATROL® AS 8053 rheological additive makes sealant and paint manufacturing faster, easier and less expensive.

THIXATROL® AS 8053 has specific processing temperature and dwell time requirements in order to develop optimum properties.

For complete activation, THIXATROL® AS 8053 should be introduced at the beginning of the manufacturing process in order to obtain sufficient wetting and dwell time. THIXATROL® AS 8053 will benefit from the temperature developed during the pigment dispersion phase to ensure maximum performance.

Recommended activation temperatures for solvent-free MSP- and SPUR sealants are 35 °C - 55 °C (95°F - 131°F) and for high solids protective coatings (epoxy primers, polyurethane topcoats) are 30 °C - 60 °C (86 °F - 140 °F)

Order of Addition

Typical high speed dissolver

1. Resin (and solvent if desired)
2. Pigments and extenders
3. THIXATROL® AS 8053
4. Mix and disperse under 12-18 m/s tip speed until the desired minimum activation temperature is reached. Avoid exceeding the maximum activation temperature for more than 10 minutes.

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5. Continue with let down under moderate mixing conditions.

Note: for systems sensitive to humidity (for example MSP- and SPUR sealants) it is advised to mix and disperse under vacuum.

LEVELS OF USE

Typical levels of use for effective sag- and flow control range from 0.5% to 3.5% of the total system weight.

The optimum use level of THIXATROL® AS 8053 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.

STORAGE RECOMMENDATIONS

THIXATROL® AS 8053 should be kept in a cool, dry location. Avoid stacking pallets in hot climates.

SHELF LIFE

THIXATROL® AS 8053 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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