

General Purpose Paste Rheological Additive for Non-aqueous Coating Systems

GENERAL INFORMATION

THIXATROL P220X - MF is a 20% active, opaque pre-dispersion of a polyamide in xylene. It is easy to incorporate and can be applied in a variety of solvent-borne systems. It provides excellent thixotropy and sag control along with increased anti-settling properties.

The structure of the active polyamide is already developed in the paste and it simply needs to be dispersed homogeneously into the system.

PHYSICAL PROPERTIES

Composition	Polyamide wax paste
Flash point	12° C
Form	Opaque white paste
Specific Gravity	0.87
Active content	20% ± 1%
Solvent	Xylene, low molecular weight alcohol

APPLICATIONS

- Industrial Maintenance Coatings
- Refinish Topcoats and Primers
- Marine and Aerospace and heavy duty coatings
- Protective Coatings
- Wood coatings

KEY PROPERTIES

THIXATROL P220X - MF rheological additive:

- Provides sag control without impairing flow and leveling
- Pre-dispersed paste form allows for easy post addition
- Controls pigment settling
- Improves package stability
- Non-reactive

INCORPORATION

THIXATROL P220X – MF should be added following the dispersion phase of the process with the remaining letdown ingredients or as a post add for viscosity correction. Best incorporation will be achieved with a Cowles type blade in the letdown tank.

Recommend incorporation temperature

THIXATROL P220X - MF needs only minimum heat (>68°F / 20°C) aid incorporation for complete activation and dispersion. THIXATROL P220X - MF is best incorporated using a Cowles blade to allow homogeneous distribution of the pre-activated product. Shear forces between 6 – 10 m/s for 15 - 30 minutes have shown excellent results.

Too high shear forces or millbase incorporation should be avoided. These might reduce the rheological efficiency as they can break down the active structure of the polymer. Too high temperatures during incorporation might also cause a similar effect. It is therefore recommended to incorporate the product after the millbase, prior to the let-down stage. THIXATROL P220 X - MF is also possible to use as a post additive.

Post addition notes

THIXATROL P220X - MF will give best results when added to a finished system with dispersion accomplished using Cowles or High Speed blades.

To optimize the incorporation process it is recommended to carry out a ladder study, varying both the time and the shear forces.

EVALUATING AND TESTING

We recommend that key performance properties are thoroughly tested when evaluating THIXATROL P220X - MF. These include colour acceptance, cure rate, adhesion, thermal stability, drying time, and indeed any other parameters critical to the commercial success of your system.

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LEVELS OF USE

Typical addition levels range from 1.0 – 3.0% by weight depending on the system and the required application performance. A loading ladder study is always recommended to optimise the dosage and performance.

HEALTH AND SAFETY DATA

Before using this product please consult our Material Safety Data Sheet (MSDS) for information on safe handling and storage. MSDS can be found on the company website at www.elementis-specialties.com.

STORAGE RECOMMENDATIONS

Store in a cool dry place. Keep container tightly closed. Store away from direct sunlight and other sources of heat. Do not expose to direct heat radiation.

SHELF LIFE

THIXATROL P220X – MF has a shelf life of 2 (two) years from date of manufacture.

PRODUCT NUMBER

12649

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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