

TECHNICAL DATA SHEET

ELEMENTIS

THIXATROL® 5050W**Metallic effect pigment orientation agent for water-borne systems**

GENERAL INFORMATION

THIXATROL® 5050W is a modified EVA copolymer emulsion for enhancing orientation of metallic & pearlescent pigments in coating films through particle's steric hindrance mechanism. It is suitable for the majority of water borne metallic paint system

CHEMICAL & PHYSICAL PROPERTIES

Composition	Modified EVA copolymer emulsion
Appearance	Off-white opaque liquid
Active Content	18 - 22 %
Density	ca. 1.0
Viscosity	<500 cps (Brookfield LV2, 25°C, 50rpm/60sec)
Solvent	Water
PH Value	4.5 ~ 6.5

These are typical properties not to be used for specification purposes

APPLICATIONS

- Automotive coatings
- Industrial coatings
- Plastic coatings
- Wood & furniture coatings
- Leather coatings
- Architectural coatings

KEY PROPERTIES

- Excellent metallic pigments orientation through controlled structure recovery and efficient particles' movement restriction after application
- Slight effect on low shear viscosity at increased dosage levels
- Can be used with thixotropic additives to obtain the best metallic orientation result. Compared with clay additives, **THIXATROL® 5050W** is less likely to cause issues such as water separation, post-thickening, and excessive viscosity build at high dosage levels
- No co-solvent added
- Recommended pH range at 9.0 - 9.5 for optimum performance

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INCORPORATION

- Easy incorporation under moderate shear, no pregel / predilution required before adding to metallic pastes.
- **THIXATROL® 5050W** exhibits slight thickening effect when used at the recommended pH range. A synergistic thixotropic behavior can be obtained when RHEOLATE 150 or other thixotropic additives is used together.
- **THIXATROL® 5050W** may reduce the pH slightly, therefore adjusting pH of paint base systems to 9.0- 9.5 before incorporating **THIXATROL® 5050W** is recommended to achieve the optimum performance.

LEVELS OF USE

Typical use levels of **THIXATROL® 5050W** are 2 % to 10 % on total system weight.

A ladder study is suggested to determine the most suitable dosage before use.

Adequate mixing during incorporation is necessary to achieve the optimum performance.

COMPATIBILITY

THIXATROL® 5050W is a fully water-based product that is free of co-solvent. It is relatively hydrophilic and gives lower compatibility with a high co-solvent content system.

HEALTH & 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.

SHELF LIFE

THIXATROL® 5050W has a shelf life of 18 months from date of manufacture.

STORAGE RECOMMENDATIONS

THIXATROL® 5050W should be stored in the temperature range of 4 - 40°C (39 - 104°F).

Due to the waterborne nature of the product, it is recommended to exercise care and prevent the material from staying open for a long period of time to prevent microbiological contamination.

QUALITY ASSURANCE

Quality system at the site manufacturing this product complies with and is certified to ISO 9001 quality standards.

SUSTAINABILITY

THIXATROL® 5050W is a water-based and organic solvent-free product.

NOTE: The information herein is currently believed to be accurate. We do not guarantee its accuracy. Purchasers shall not rely on statements herein when purchasing any products. Purchasers should make their own investigations to determine if such products are suitable for a particular use. The products discussed are sold without warranty, express or implied, including a warranty of merchantability and fitness for use. Purchasers will be subject to a separate agreement which will not incorporate this document.

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