

## 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

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<b>Composition</b>	Modified EVA copolymer emulsion
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<b>Appearance</b>	Off-white opaque liquid
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<b>Active Content</b>	18 - 22 %
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<b>Density</b>	ca. 1.0
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<b>Viscosity</b>	<500 cps (Brookfield LV2, 25°C, 50rpm/60sec)
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<b>Solvent</b>	Water
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<b>PH Value</b>	4.5 ~ 6.5
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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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## THIXATROL® 5050W

### 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.

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