

H-1421 Heat Resisting Leveling Agent

Polyether modified polydimethylsiloxane

Product Description:

H-1421 is a silicone-based leveling agent offering excellent heat resistance, compatibility, and recoatability. It provides smooth, self-leveling properties, making it ideal for use in high-temperature paint systems.

Main Advantages

1. Excellent heat resistance.
2. Superior compatibility with other resins.
3. Fully recoatable.
4. Self-leveling and improves surface smoothness.

Typical Physical Properties

Parameter	Value
Appearance	Amber clear liquid
Viscosity cps/25°C	1000-2500
Solid content %	≥97.00
Refractive index 25°C	1.4400±0.0050
Diluting agent	Water, alcohol, ester

Application

1. **Coil coating & metal paint:** Dosage 0.1-0.5%.
2. **Can coating & heat baking paint:** Dosage 0.1-0.5%.
3. **Printing varnish & ink:** Dosage 0.3-1.0%.
4. **Engineering machinery paint:** Dosage 0.1-0.3%.

Similar Items and Functions

Function \ Item	1421	1426	1540
Effective %	100	100	100
Chemical Structure	Polyether silicon	Polyether silicon	Aralkyl silicon
Leveling Speed	★★★★	★★★★	★★★
Wettability	★★★	★★★	★★



Function \ Item	1421	1426	1540
Compatibility	★★★★★	★★★★★	★★
Anti-Shrinkage	★★★	★★★	★★
Smoothness	★★★	★★★★★	★★★★★
Recoating	★★★★★	★★★★★	★★★★★
Foam Control	★★	★★	★★★★★
Water\Oil\UV	Y/Y/Y	N/Y/Y	N/Y/Y

Conclusion:

All three products are silicone auxiliaries with high-temperature resistance and excellent recoating properties. They enhance smoothness, commonly used in high-temperature paint systems. Among them:

- **1421** has the best compatibility.
- **1426** offers the best leveling feel.
- **1540** has the strongest defoaming and wear resistance.

Use Restrictions:

This product is not tested or stated to be suitable for medical or pharmaceutical applications.

Storage and Validity:

Unopened storage at temperatures below 38°C ensures a shelf-life of 36 months from the date of production.

Product Packaging:

- **Sample Package:** 125ml glass bottle
- **Finished Product Packaging:** 25KG iron drum