

H-1824 Silicone Leveling Agent

Hydroxy Polyether Polyester Copolymer Modified Polysiloxane

Description:

H-1824 is a classical silicone leveling agent with a unique hydroxy polyether polysiloxane modified copolymer structure and larger molecular weight. It offers excellent leveling, anti-fouling, anti-shrinkage properties, and enhances high-film fullness without stabilizing fullness.

Product Function

1. Mirror-leveling effect.
2. Anti-shrinkage and anti-oil stain properties.
3. High fullness and smoothness.
4. Good compatibility without stabilizing foam.
5. Reduces resin viscosity, especially suitable for low-viscosity coating systems.
6. Participates in resin reactions under high-temperature or UV conditions, offering mark-pen graffiti resistance.

Typical Physical Properties

Parameter	Value
Appearance	Light yellow transparent liquid
Solid content % (120°C/2h)	≥98.00
Viscosity (25°C, cps)	1000-5000
Refractive index (25°C)	1.4400±0.0050
Diluter	Alcohols, esters, benzene

Product Application

1. **Gloss and Matt PU Wood Finish:** 0.35%, for mirror-leveling without needing silicone or acrylic ester leveling.
2. **UV Wood Floor Varnish:** 0.5-1.0%, for mirror feel and mark-pen graffiti resistance (often used with 8586N).
3. **UV Plastic Paint:** 0.3-0.5%, for anti-shrinkage, anti-oil stain, mirror leveling, and anti-abrasion.
4. **UV Film Coating:** 0.3%, usually used with H-1461 (1.0%).
5. **UV Vacuum Electroplated Finish Paint:** 0.1-0.2%, for mirror leveling, anti-shrinkage, high smoothness, and mark-pen graffiti resistance.



- 6. **UV Paper Gloss and Printing Ink:** 0.5-1.0%, for mirror-leveling, enhanced smoothness, and abrasion resistance.
- 7. **PU/Amino Baking Paint:** 0.3-1.0%, for leveling, anti-oil stain, and anti-graffiti properties.
- 8. **Water-Based Ink, Plastic Paint, or Water-Based Baking Paint:** 0.1-0.5%, for mirror-leveling, anti-oil stain, anti-shrinkage, smoothness, and abrasion resistance.

Application Method

H-1824 can be added during or after the manufacturing process of coatings and paints. It is suggested to dilute with suitable solvents like alcohols or esters to create a 20% solution for optimal system distribution and compatibility.

Similar Items and Functions

Function/Model	1824	1814	1845
Effective Content %	100	100	100
Freezing Point (°C)	+18	+18	-15
Chemical Structure	Hydroxy polyester	Polyether polyester	Polyether silicon
Leveling Velocity	★★★	★★★★★	★★★★★
Mirror Effect	★★★★★	★★★★★	★★★
Wettability	★★★★	★★★★	★★★★
Compatibility	★★★★	★★★★★	★★★★★
Anti-Shrinkage Pore	★★★★★	★★★★	★★★
Smoothness	★★★★★	★★★	★★★
Anti-Graffiti	★★★	★	★
Recoating Property	★	★★★	★★★
Foam Control	★★★	★★★	★★★
Water/Oil/UV	Y/Y/Y	Y/Y/Y	Y/Y/Y

Use Restrictions

This product has not been tested or stated to be suitable for medical or pharmaceutical use.

Storage and Validity

Unopened and stored at room temperature, the product has a shelf life of 24 months from the date of production.

Product Packaging

- **Finished Package:** 25KG plastic drum