

## H-1444 Silicone Leveling Agent

### Polyether Copolymerization Modified Polysiloxane

#### Product Description:

H-1444 is a general-purpose silicone leveling agent designed for rapid leveling. It is widely used across various ink and coating systems, offering excellent substrate wetting and leveling performance. The product effectively prevents shrinkage and orange peel formation.

#### Main Advantages

- Quick leveling and shrinkage resistance.
- Suitable for water-based, oil-based, and UV systems.
- Good compatibility, can be used in varnishes.
- Excellent substrate wetting without stabilizing foams.

#### Typical Physical Properties

Parameter	Value
Appearance	Yellow transparent to translucent liquid
Viscosity (25°C, cps)	100-500
Solid content %	≥94.0
Refractive index (25°C)	1.4400±0.0050

#### Application

1. **UV varnish and ink:** Dosage 0.3-1.0%, for quick leveling and enhanced slipping.
2. **Baking paint and PU varnish:** Dosage 0.1-0.3%, for leveling and anti-shrinkage.
3. **Oil-based varnish:** Dosage 0.1-0.5%, for quick leveling and foam destabilization.
4. **Oil-based leather coating and moisture curing:** Dosage 0.5%, for leveling and transparency.
5. **Water-based paint and ink:** Dosage 0.1-1.0%, for wetting and quick leveling.

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#### Application Method

H-1444 leveling agent can be added during or after the manufacturing process of coatings or paints. It is recommended to dilute the product 3-5 times before adding, ensuring an even spread.

#### Similar Items and Functions



Function \ Item	1464	1444	1466
Effective %	100	100	100
Freezing Point (°C)	+16	-10	-10
Chemical Structure	Polyether silicon	Polyether silicon	Polyether silicon
Leveling	★★★★	★★★	★★★★
Mirror Effect	★★★★	★★★★	★★★
Wettability	★★★★	★★★★	★★★★
Compatibility	★★★★	★★★★★	★★★★
Anti-Shrinkage	★★★★	★★★★★	★★★
Smoothness	★★★★★	★★★	★★★★
Recoating	★★★★	★★★	★★★
Foam Control	★★★	★★	★★
Water\Oil\UV	Y/Y/Y	Y/Y/Y	Y/Y/Y

**Storage and Validity**

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

**Transportation**

Non-flammable, follows conventional chemical transportation guidelines.

**Product Packaging**

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