

## H-1461 Silicone Leveling Agent

### Polyether Modified Polydimethylsiloxane

**Product Description:**

H-1461 is a general-purpose silicone quick leveling agent with low surface tension and excellent wetting ability. It offers good permeability, making it especially suitable for film UV coatings, silk-printed varnishes, and water-based coatings.

**Main Advantages**

1. Quick leveling and good resin miscibility.
2. Low surface tension and substrate wetting ability.
3. Enhances gloss and provides unstable foam.
4. Improves slipping and offers high cost performance.
5. Good recoating with no impact on layer adhesion.

**Typical Physical Properties**

Parameter	Value
Appearance	Amber transparent liquid
Viscosity (25 °C, cps)	30-300
Solid content %	≥95.00
Specific gravity (25 °C)	1.030±0.050
Refractive index (25 °C)	1.4430±0.0050
Flashpoint (°C)	>100
Diluting agent	Water, alcohol, ester, benzene

**Application**

1. **UV film paint:** 0.5-2.0%, for wetting and quick leveling.
2. **UV paper silk-printed varnish:** 1.0%, for leveling and unstable foam (typically used with H-1824-0.55%).
3. **UV metal coating/plastic paint:** 0.3-1.0%, for wetting and leveling.
4. **Water-based wallpaper and paper coating:** 1.0%, for wetting and quick leveling.
5. **Water-based wood paint and ink:** 0.3-1.0%, for wetting and leveling.
6. **Oil-based varnish:** 0.3-0.5%, for quick leveling and unstable foam.
7. **Oil-based leather coating and moisture curing:** 0.5%, for leveling and transparency.
8. **Oil-based paint and ink:** 0.1-1.0%, for wetting and quick leveling.



**Application Method**

H-1461 leveling agent can be added during or after the manufacturing process of coatings and paints. It is easy to add and disperse.

**Similar Items and Functions**

Function \ Item	1461	1464	1466
Effective %	100	100	100
Freezing Point (°C)	-15	+16	-10
Chemical Structure	Polyether silicon	Aryl 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

**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 temperatures below 38°C, the product has a shelf life of 36 months from the date of production.

**Product Packaging**

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