



Silicone Spreading and Penetrating Agent HY-109

Product Name: Silicone Spreading and Penetrating Agent HY-109

Introduction:

Silicone spreading and penetrating agent HY-109 is a modified trisiloxane, and is an organic silicone surfactant with super ability of spreading. It makes the water surface tension lower down to the 20.5mN/m at the concentration of 0.1% (wt.).

Feature:

- Super spreading and penetrating agent.
- Low surface tension,
- High cloud point.
- Nonionic.

Character:

Item	Standard
Appearance	Colorless to light amber liquid
Viscosity (25°C, mm ² /s)	20-40
Surface tension (25°C, 0.1%, mN/m)	<22
Cloud point (1% wt, °C)	>35°C
Remarks	It is sometimes cloudy and frozen at low temperature which will not affect the quality. The cloudy will disappear by heat.



Application :

1. Used in agrochemicals.

Used as spray adjuvant:HY-109 can increase the coverage of the spraying agent,promote the uptake and decrease the dosage of the spraying agent. HY-109 is the most effective when spray mixtures are

- (i) Within a PH range of 6-8
- (ii) Prepare the spray mixture for immediately use or within 24h preparation.

Used in agrichemical formulations: HY-109 can be added in the original pesticide.

2. Used in coatings and paints:

HY-109 can be widely used in water based and solvent based coatings and paints. It is effective at the very low use level, it is a super wetting and penetrating agent especially used in water based coatings and paints. It provides low surface tension and high surface activities, improves the flow, leveling, smoothness and wetting of the base materials, etc.

The dosage is depended upon the type of formulations.

The recommended dosage is 0.1~0.2wt % of the total water based systems and 0.5% of the total solvent based systems.

A thorough application test is necessary to get an ideal result.

It has different characteristics when used in different systems.

Package: 20L, 200L plastic drums, or up to clients request.

Storage: Store in dry place, avoid exposing to the sun.

Valid Period: 24 months

Transport as no-danger cargoes

<https://www.hengyitek.com/product/silicone-spreading-and-penetrating-agent-hy-109/>