



Agricultural Silicone Spreading and Penetrating Agent

HY-188

Product Name: Agricultural Silicone Spreading and Penetrating Agent HY-188

Introduction:

Agricultural Silicone Spreading and Penetrating Agent HY-188 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.). After the mixture with the pesticide solution at the certain proportion, it can lower the contact angel between the spray and foliage, which can enlarge the coverage of the spray. Furthermore, HY-188 Agricultural Silicone Spreading and Penetrating Agent can make the pesticide absorbed through the stomatal of leaves, which is extremely effective for improving efficacy, reducing amount of pesticide, saving cost, reducing environmental pollution caused by pesticides.

Feature:

- Super spreading and penetrating agent.
- To reduce the dosage of agrochemical spraying agent.
- To promote the rapid uptake of the agrochemical (tolerance to rainfall)
- Non-ionic.

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)	<20.5
Density (25°C)	1.00~1.02g/cm ³
Cloud point (1% wt, °C)	<10°C

Application :

(1). Used as spray adjuvant: HY-188 can increase the coverage of the spraying agent, promote the uptake and decrease the dosage of the spraying agent. The HY-188 is the most effective when spray mixtures are

- (i) within a PH range of 5-8
- (ii) prepare the spray mixture for immediately use or within 24h preparation.

(2). Used in agrochemical formulations: HY-188 can be added in the original pesticide. As surfactant can be hydrolyzed in PH condition, in order to achieve the best results, the pH of the pesticide formulation should be adjusted with a slow-release agent to 6.5-7.5. Generally, HY-188 is added in an amount of 0.5-8% of the pesticide stock solution.

Use Method:

1) Used of spray mixed in drum

In general, add HY-188 (4000 times) 5g in every 20kg spray. If it needs to promote the adsorption of systemic pesticide, increase the function of pesticide or reduce the amount of spray further, it should add the usage amount properly. In general, the amount is as follows:

Item	Standard
Plant promote regulator	0.025%~0.05%



Herbicide	0.025%~0.15%
Pesticide	0.025%~0.1%
Bactericide	0.015%~0.05%
Fertilizer and trace element	0.015~0.1%

When using, first dissolve the pesticide, add HY-188 after the uniform mixture of 80% water, then add water to 100% and mix them uniformly. It is advised that when using Agricultural Silicone Spreading and Penetrating Agent, the water amount reduced to 1/2 of the normal (suggested) or 2/3, average pesticide usage reduced to 70-80% of the normal. Using the small aperture nozzle will quicken the spray speed.

2) Used of Original Pesticide

When the product added to the original pesticide, we suggest the amount is 0.5%-8% of the original pesticide. Adjust the PH value of the pesticide prescription to 6-8. The user should adjust the amount of Agricultural Silicone Spreading and Penetrating Agent according to different kinds of pesticide and prescription to reach the most effective and most economical result. Do compatibility tests and stepwise tests before usage.

Package:

20L, 200L plastic drum, or up to clients request.

Storage:

Store in dry place, avoid exposing to the sun. Valid Period: 3 years

Transport on no-danger cargoes

<https://www.hengyitek.com/product/agricultural-silicone-spreading-and-penetrating-agent-hy-188/>