

# PINEYE™ Piney Resin Emulsion

non-toxic biodegradable monoterpene polymer  
CAS 34363-01-4

**FOREVEREST PINEYE™** is a biodegradable emulsion contents of 100% organic piney resin. Non-toxic, no harmful residues detected, a green surfactant for plants to lock water and against UV degradation. **PINEYE™** will saves your pesticide costs and protect your plants in green grow.

## PERFORMANCE TEST

1. Three samples, Sample A with standard emulsion, Sample B with testing emulsion and Sample C without emulsion, they are set up in this test for comparison.
2. To avoid dehydration, the petiole wounds of all collected plants have been dipped into the standard emulsion (as shown on the picture).
3. It is two-days test. ( I ) Spraying samples on the plants at the noon of June 6. ( II ) process in 6 hours outdoor exposure test in the afternoon (Cloudy, 26~28 °C). ( III ) Storage for 15 hours in room shady place in the night,. ( IV ) Final process at outdoor exposure test for next 3 hours on June 7. The testing time is 24 hours in total.
4. Results show the proximity of appearance, solubility, film forming ability and water retention. ability between Sample A and Sample B.



Figure.2 Distribution effects on plants after spraying



Figure.1 Uniform and milky white liquid after adding more water



Figure.3 Film forming performances after surface dry



Figure.4 hours after spraying, no wilting or withering condition  
June 6, Afternoon, 26~28 °C  
Left Sample A, Right Sample B



Figure.5 After 6 hours outdoor exposure and 15 hours storage in room, no wilting or withering condition




June 7, Noon, 25~26 °C  
Left Sample A  
Middle Sample B  
Right Sample C



Figure.6 After 3 hours in direct sunlight

June 7, Aternoon, 32~33 °C  
Left Sample A  
Middle Sample B  
Right Sample C

## CONTACT WITH US

 [Foreverest.cn](http://foreverest.cn)  
 86 592 5105533  
 [info@foreverest.cn](mailto:info@foreverest.cn)



# PINEYE™ Piney Resin Emulsion

non-toxic biodegradable monoterpene polymer  
CAS 34363-01-4

**FOREVEREST PINEYE™** made for coating plants to prevent loss of water, to adhere pesticides to plants, and to aid plant growth. It is Non-toxic, Biodegradable monoterpene Polymers, It also protects the plant against UV degradation, frost, windburn and acid rain. Forms a sticky, elastic film which encapsulates and tenaciously holds the pesticide on the crop foliage in spite of rainfall, irrigation or wind. Also shields the residue from heat and ultra-violet light degradation. University research shows significant (up to 100%) increase in the duration of biological insecticides such as Bt's. It has achieved remarkable effects on the vineyard and peanut plants as reported.



ITEM	RESULT	ACCEPTABILITY
Appearance	Proximate	YES
Viscosity	Proximate	YES
Odor	Different: the odor of the standard sample is lighter, while the testing sample has a slightly strong pine resin odor.	YES
Solubility	Proximate: both samples have good solubilities in water with milk white color, few bubbles arised when stirring, but vanishing immediately.	YES
Distribution Effect	Proximate: the distribution effect of the testing sample has improved, with much less "oil drops" on leaves after surface dry, comparable to the standard sample.	YES
Surface Drying Time	Proximate: both samples could dry fast and form oily films easily (sunny day, around 30 C).	YES
Film Forming After Surface Drying	Proximate: the standard sample could form uniform oil fim, almost no oil drops seen even with magnifying glass, more shiny overall; the testing sample has few oil drops seen with magnifying glass, but invisible with the naked eye.	SIMILAR
Water Retention	Slightly different: the standard sample has better performance; but the water retention ability of the testing sample has clearly improved compared to last sample, very close to the standard sample now.	SIMILAR

## RESULTS

1、After 0.5 hours direct sunlight, Sample C shows clear water loss and wilting conditions. After a hour, there are clearly black patches caused by water loss on Sample C, while Sample A and B only become slightly wilting, no brown patches on them.

2、After 3 hours direct sunlight, Sample C shows serious water loss and withering conditions. Plants become wilting and curling, widely with brown patches. Sample A and B both have brown patches on plants at similar degree and time.

## CONTACT WITH US

 [Foreverest.cn](http://www.Foreverest.cn)  
 86 592 5105533  
 [info@foreverest.cn](mailto:info@foreverest.cn)

