



A HUBER COMPANY

Nu Film P

Wetter, Sticker and Spreader

Nu Film is insurance for your spray applications

Insurance for your spray applications, Nu Film® is a natural agricultural adjuvant derived from pine resin that forms a film barrier, protecting and prolonging the useful life of agrochemicals sprayed on agricultural crops. Used at the right rate and repeatedly, it allows the extension of the spray intervals between applications. It is non-toxic.

A natural and different composition.

Nu Film® is as an emulsifiable concentrate formulation of the active ingredient, Poly-1-p-menthene. After application, the product forms a film on the plant surface that combines with the plants cuticle giving Nu Film® its excellent adhesion capacity and helps the absorption and assimilation -with the leaf tissue, of foliar nutrients, growth regulators and systemic pesticides.

Mode of action:

When sprayed on the plant surface, Nu Film® combines with the waxy cuticle to form a flexible adhesive film that cannot be washed off by rainfall or irrigation. This protective film layer also reduces environmental factors, which can reduce the effectiveness of pesticide sprays. (Many nonionic water-soluble adjuvants suffer from the problem of rewetting, which causes the accompanying agrochemical to be easily washed after drying).

Exposure to daylight for 60 minutes after application is necessary for the protective film to be created.

Properties of Nu Film

Humectant and Spreader	Nu Film® reduces the spray droplet surface tension increasing droplet spread and coverage. This is very helpful when spraying waxy or hairy parts of the plants, thus reaching the difficult-to-access plant parts.
Sticker	Nu Film® is a superior sticker that can increase spray deposition by 30 to 45% during spraying.
Protector	Nu Film® effectively protects the spray droplet from loss or degradation due to heat and ultraviolet radiation (the film acts as a protective filter). This is very important when used with biological products. It will also protect the pesticide from being lost due to overhead irrigation, rain, heavy dew, the abrasion of the leaves rubbing against each other, and erosion by the wind. It also minimizes the volatilization of the product.
Extender	Nu Film® can prevent the rapid degradation of pesticides by hydrolysis, a natural reaction between agrochemicals and the action of oxygen and hydrogen.

Recommendations for the use of Nu Film®

INDICATION	AS A SPREADER AND STICKER
With insecticides and fungicides. To prolong the activity and increase the efficiency of insecticides and fungicides on all crops.	200-300ml per Hectare Compatible with Insecticides, Fungicides, Foliar Fertilisers and Herbicides
With pre-emergent herbicides. It can reduce herbicide losses due to leaching.	200-300ml per Hectare

Re-entry time to the treated areas: The indicated time for the accompanying agrochemical.

Getting the Best out of Glufosinate

Independent trials conducted on behalf of Miller Fertiliser and Chemicals in Australia have consistently shown improved control over a variety of weeds through the addition of Nu Film @ 300ml/ha as the day's spray conditions change.

In one such trial the addition of Nu Film P @ 300ml to 5L/ha of Basta significantly increased control of barnyard grass and foxtail over the duration of the days spraying; more so than Basta @ 5L/ha alone.

Treatments showed no significant differences in weed control in applications applied early morning (96% to 100%), however the addition of Nu Film P @ 300ml/ha significantly increased weed control in application timings of noon and 6pm.

At the initial timing of 7am, the addition of Nu-Film P to Basta had no negative impact on the control of any of the weeds in this trial, resulting in excellent weed control between of 96.7% to 100%.

At the second timing at noon and at the third timing at 6pm when conditions were hot and dry (low humidity), the addition of Nu-Film P to Basta significantly increased the control of large barnyard grass (90% to 100% noon, 90 to 96.7% 6pm) and foxtail (78.3% to 100% noon, 66.7% to 93.3% 6pm) when compared to Basta applied alone at these timings.

Basta @ 5L/ha and Nu Film P @ 300ml/ha 5 weeks after treatment



Basta @ 5L/ha – 5 weeks after treatment



Nu Film CONCLUSION

Nu Film®, in addition to providing the benefit of achieving excellent coverage and initial deposit of the accompanying pesticide product, provides the advantages of protecting it against degradation due to adverse environmental factors, such as UV rays from the sun, high temperatures, washing by rain, spray and even sprinkler irrigation, among others.

Mixing instructions	Add Nu-Film to the spray tank as the last ingredient. Where possible it is advisable to pre-mix Nu Film® in water, before adding to the spray tank. Add while the tank is full, always with the agitator running.
How to apply it	Nu Film® can be applied by aerial or ground spraying,
Duration of activity	The film created Nu Film®, is active for 7-10 days dependent rate applied and environmental conditions. The film can last longer in winter due to the lower incidence of ultraviolet radiation from the sun.
It can be used with systemic products	In low doses, Nu Film® increases the penetration of systemic products, growth regulators and foliar fertilizers. This is explained by the semi liquid phase of the film in contact with the leaf, which helps the agrochemical to penetrate the tissues of the plant.

Ideal for application with biological and natural products.

Nu Film®, as a natural and non-toxic product, is the perfect adjuvant for use with Bacillus thuringiensis and other microbial products. It is approved for use in organic agriculture in the USA, Germany and Italy.

Phytocompatibility

Nu Film®, applied at the recommended rate will not cause phytotoxicity. Nu Film® will not interfere with the plants photosynthesis.

Compatibility

Nu Film® is compatible with most pesticides, growth regulators and foliar fertilizers used commercially. It is always advisable to do a small-scale compatibility test before mixing it with other products.

Does not block spray equipment.

Given the water insolubility of Nu Film®, it is essential to wash the tank, hoses and nozzles with water immediately after spraying. Once the tank has been washed, there may still be a slight film, which rather helps to prevent oxidation and corrosion of the equipment, although without obstructing the nozzles.

A gentle product

Nu Film® is non toxic to wildlife and domestic animals, fish and other aquatic organisms, and plants.

