

# MOISTURE-LOC

prevents plant wilt and decreases water loss

# PLUS

30% MORE SOLIDS

**Moisture-Loc Plus** is a water-based polymer coating which creates a semi-permeable elastic membrane that reduces moisture loss in plants during extreme climate conditions. The membrane is gas permeable and remains flexible, enabling the plant to continue normal stomatic and growth activities.

## KEYS TO SUCCESS

- **COVERAGE:** **Moisture-Loc Plus** only works on the plant material that it covers. Plant material that has not been sprayed will not receive any direct benefits. **Moisture-Loc Plus** is most effective when applied with enough water for **Moisture-Loc Plus** to thoroughly cover the entire leaf surface, covering both the upper and lower leaf surfaces.
- **CONCENTRATION:** The benefits of **Moisture-Loc Plus** are based on the density of the polymers that coat the plant surface. Best results will be achieved with dilution ratios between 20:1 and 40:1 (4.8% - 2.4% dilution rate). In some applications, such as dilute spray methods, results may be achieved at 100:1 (1.0% dilution rate). Using less than one gallon of **Moisture-Loc Plus** per 100 gallons of water will rarely yield a benefit.
- **Moisture-Loc Plus** applied at a 20:1 ratio (4.8% dilution rate) provides five times more polymer coating on the plant surface than a 100:1 ratio (1.0% dilution rate). A thicker polymer coating, which is achieved by using a higher concentration, will result in a more productive environment for most plants during climate stresses.
- **NOTE:** When using **Moisture-Loc Plus**, variables such as plant variety, size and age, climate conditions, and water availability, combined with the different protocols used in the planting, growing, transplanting, establishment, storage and shipping of plants, trees and shrubs, make it difficult to recommend an exact application rate. With over 25 years of grower experience, university and research lab testing, it is not possible to provide more specific recommendations than stated. We recommend starting at the lowest recommended rate and increasing the amount of **Moisture-Loc Plus** until the desired result is achieved. For some tender plants or under mild conditions, testing at less than the recommended rate may yield the desired result.

## DIRECTIONS FOR USE

- For thorough mixing of **Moisture-Loc Plus**, the mixing water should be above 40° F.
- **Moisture-Loc Plus** must be applied when weather conditions will allow for the product to completely dry before periods of frost and freeze occur.
- When plants/trees/sod are in dehydrated conditions, water thoroughly and provide time for take-up of water before applying **Moisture-Loc Plus**.
- If applied to edible foodstuff, last application should provide sufficient time (30-45) days for product to degrade prior to harvest. The time period is not applicable to those food stuffs which are subjected to cleaning processes.

- Not subject to wash off by rain or irrigation. Do not apply if weather conditions or irrigation schedules will not permit adequate time for complete drying.
- **Moisture-Loc Plus** will remain effective 30 - 45 days. New growth will need to be sprayed.

## METHODS OF APPLICATION

- **Moisture-Loc Plus** lends itself to most types of conventional farm, orchard, or ground spray equipment, including helicopters. Centrifugal pumps may require a silicon carbide seal ring to withstand the polymer. Avoid spray-drift damage by following chemical spray guidelines. Fixed wing may not provide sufficient coverage.
- Small droplet size will provide the best coverage.
- Nozzle size and pressure selection should be such as to dispense **Moisture-Loc Plus** over the entire plant surface.
- Effectiveness of **Moisture-Loc Plus** depends on temperature variants, wind conditions, concentration dilutions, application equipment and types of plant, tree or grass on which the product is applied.

## APPLICATION RATES

- **Recommended Rate:** A 1% - 5% dilution rate (1 gallon of **Moisture-Loc Plus** per 100 gallons of water up to 1 gallon of **Moisture-Loc Plus** per 20 gallons of water). See chart to right.
- When dilute spraying is desired, add 1 quart of concentrate to 25 gallons of water, which is a 1% dilution rate.
- The amount of water sufficient to cover the foliage will always determine the amount of product to be used.

## MIXING INSTRUCTIONS

- **Moisture-Loc Plus** is a concentrate to be mixed with water prior to application.
- To reduce foaming, mix recommended amount of **Moisture-Loc Plus** after desired amount of water has been pumped into mixing tank.
- When using an anti-foaming agent, add it to the water first before adding **Moisture-Loc Plus**.
- When mixing with hard water a spreader may be needed to prevent beading.
- For mixing purposes, the pH factor in the tank must be within the 5 to 8 range. When in doubt, perform a standard jar test with a small amount of concentrate and water to determine if the materials blend. If the materials separate, the pH factor is not compatible.
- Product may need to be poured through a screen to filter any film that may have formed around the top of the bottle.
- Residues from some chemicals, especially calcium and magnesium, may cause solids to separate from water. Evidence of this occurrence will appear as "cottage cheese" or small bits of

whitish material floating on the surface foam and collecting in filters. Correct this problem by cleaning spray equipment with a commercial neutralizer sold specifically for this purpose.

- DO NOT MIX WITH HIGH ACID OR HIGH ALKALINE FORMULATIONS, CALCIUM OR MAGNESIUM.
- Never spray **Moisture-Loc Plus** from any equipment (tank, hoses, nozzles) which has previously been used in herbicide application unless the equipment has been neutralized with a commercial product sold exclusively for this purpose. Failure to neutralize may cause plants to experience herbicide burn.

## ADDITIONAL INFORMATION

- **Moisture-Loc Plus** may enhance chemicals when tank mixed.
- Do not use with any silicone based spreaders.
- Keep unused containers of concentrate tightly sealed at all times.
- **DO NOT FREEZE!** Store in temperature regulated environment and do not apply in temperatures below freezing. Polymer will go into shock when frozen and corrupt the product.
- Do not store in direct sunlight.
- Best if used within 1 year, when properly stored.

## CLEAN UP

### Exterior Tank:

- Prior to spraying, coat the exterior of equipment (tractor and fan) with a vinyl/rubber protectant or other release agent.
- If product dries on equipment, remoisten with water and remove with a pressure washer.

### Interior Tank:

- Immediately after spraying rinse tank, hoses and nozzles thoroughly with water to flush all **Moisture-Loc Plus** dilutions from equipment.
- When concentrate is spilled, flush area with water before drying for quick, easy clean up.
- For removal of dried product, soak in water, use pressure washer with hot water, if available.

### Spillage on Clothing:

- Immediately wash product from clothing completely to avoid stains.

Read instructions carefully before using this product

NONPLANT FOOD INGREDIENT  
NON-TOXIC & BIODEGRADABLE

**KEEP OUT OF REACH OF CHILDREN**

Manufactured by Zorro Technology Inc.  
Clackamas, OR 97015

[www.conserveawater.com](http://www.conserveawater.com)

MADE IN THE U.S.A.

## SUGGESTED DILUTION RATES:

**APPLES** – as needed, including: Dilution Rate

- Apply at bud break to first bloom 1% - 5%
- Apply at late green cluster 1% - 5%

**AVOCADOS** – as needed, including: Dilution Rate

**Summer Application**

- Apply in late May. 1% - 2%
- Reapply in mid-July 1% - 2%

**Winter Application**

- Apply prior to onset of potentially damaging temperatures 1% - 2%

**BLUEBERRIES** – as needed, including: Dilution Rate

- Before the threat of frost and freeze occurs 2% - 5%
- Apply at straw stage 2% - 4%
- Apply at late summer flush 1% - 3%

**CHERRIES** – as needed, including: Dilution Rate

- For frost and freeze to buds and blooms before threat occurs 1% - 5%
- To reduce splitting of fruit during exposure to rain or excessive moisture, apply before or at straw stage 1% - 2%
- Post harvest: apply for heat tolerance 1% - 2%

**CITRUS** – as needed, including: Dilution Rate

- Before the threat of frost and freeze occurs 1% - 2%
- To reduce the effects of heat stress, apply before temperatures exceed 97° F 1% - 2%
- Reapply at 30-45 day intervals, as needed, for maximum benefits.
- Apply at any time if additional coating is needed due to extreme weather conditions.

**GRAPES** – as needed, including: Dilution Rate

- For frost and freeze apply at 25-50% bloom 1% - 5%
- Reapply 21 days after initial application; followed with a third spray 21 days after second application 1% - 5%

**NUT CROPS** – as needed, including: Dilution Rate  
*Almonds, Pecans, Pistachios, Walnuts*

- For heat stress and water stress, apply at bud break to first bloom 1% - 2%
- Reapply every 30 - 45 days as needed through harvest

**OLIVES** – as needed, including: Dilution Rate

- Post Harvest** 1% - 2.5%
- Apply in tank mixed with copper or after copper application
- Winter/Spring** 1% - 2.5%
- For frost and freeze, reapply before threat occurs

DILUTION RATE / RATIO	WATER	MOISTURE-LOC PLUS
1% / 100:1	100 gallons	1 gallon
2% / 50:1	50 gallons	1 gallon
2.5% / 40:1	40 gallons	1 gallon
3% / 33:1	33 gallons	1 gallon
4% / 25:1	25 gallons	1 gallon
5% / 20:1	20 gallons	1 gallon

**STONE FRUIT** – as needed, including: Dilution Rate

- Apply as needed at bud-burst, after petal fall and fruit set, or during growing stages. 1% - 5%

**ROW CROPS** – as needed, including: Dilution Rate

- Apply at bud break to first bloom 1% - 2%

**STRAWBERRIES** – as needed, including: Dilution Rate

- Apply at leaf development, late bud/early flower stage, and fruit set as needed 1% - 5%

**TOMATOES** – as needed, including: Dilution Rate

- Apply at bud break to first bloom 1% - 5%
- Reapply at second and third bloom 1% - 5%

**TRANSPLANTS** – as needed, including: Dilution Rate

- Spray or dip transplants as needed before planting 5%

**ALL OTHER CROPS** – as needed, including: Dilution Rate

- Apply as needed 1% - 5%
- Apply up to full strength as needed, by experience

### NURSERY APPLICATIONS:

**BARE ROOT** – as needed, including: Dilution Rate

- Spray or dip to reduce dry-out as an alternative to wax 3% up to full strength
- Application to exposed roots is recommended whenever possible.
- Rooting hormone applications may be applied after the application of **Moisture-Loc Plus**.

**CANNABIS** – as needed, including: Dilution Rate

- Use for cloning and propagation 10% up to full strength
- Apply before bud-break to prevent access to insects and disease 1% - 5%

**CHRISTMAS TREES** – as needed, including: Dilution Rate

- Apply as needed in late May with a re-application in July 1% - 5%
- OR make the first application in late June/early July, prior to temperatures rising above 95° F 1% - 5%
- Just before or at harvest, apply to extend freshness and reduce needle drop 5%

**ORNAMENTALS** – as needed, including: Dilution Rate

- For frost/freeze and heat stress, apply as needed every thirty days 1% - 5%
- Apply a prior to shipping 2.5% - 5%

**PALMS / TROPICALS** – as needed, including: Dilution Rate

- Before the threat of frost and freeze occurs 2.5% - 5%
- For wind desiccation and browning of tips 2.5% - 5%

**PROPAGATION** – as needed, including: Dilution Rate

- Spray or dip 10% up to full strength

**ROSES** – as needed, including: Dilution Rate

- For container and field grown** 2.5% - 5%
- Apply before frost/freeze event
  - Apply prior to shipping
- For planted dormant roses** 3% up to full strength
- Apply as an alternative to wax

**LAWN/TURF** – as needed, including: Dilution Rate

- Apply after every third cutting and in stressed areas after thorough watering 2.5% - 5%

**SOD** – as needed, including: Dilution Rate

- Apply before harvesting 3% - 5%

**MOISTURE-LOC PLUS**