



SUN
PROTECTANT



DIMMER®

Dimmer® is a natural product providing sunburn and heat stress protection in apples. Sunburn protection is achieved by establishing an invisible barrier that filters harmful radiation while leaving no residue and having no impact on fruit maturity.

FEATURES AND BENEFITS

- Natural product providing sunburn protection allowing marketable yield to be maximised.
- Excellent tank mix compatibility allowing Dimmer to be applied with other crop protection products saving cost and time associated with separate spray jobs.
- No impact on ripening or colour development of red varieties leading to higher pack out percentage at harvest.
- No visible residue allowing accurate colour picking at harvest and no residue to remove post harvest.
- 0-day pre harvest interval allowing late season protection of fruit till harvest.
- Low use rate (1.5 kg/ha) meaning less product to handle and transport.



Sunburn Royal Gala. February 2024,
Nelson, NZ

ACTIVE INGREDIENT

Spirulina platensis (blue-green microalgae) in the form of water-soluble micro granule

MODE OF ACTION

Phytocyanin pigment forms an invisible barrier filtering ultraviolet and infrared radiation protecting against sunburn and heat stress

CROP SUPPORTED

Apples

PRE HARVEST INTERVAL

0 Days



APPLICATION RATE

Application rate for Dimmer is 1.5 kg/ha - where spray volumes exceed 1,000 L/ha, apply Dimmer at a rate of 150 g/100L water.

WATER VOLUME

Dimmer should be applied in sufficient spray volume for thorough coverage. When concentrate spraying use at least 500 L/ha water. Do not apply to the point of run-off.

APPLICATION RECOMMENDATIONS

Applying the 1st application (**PRIMER**) in early summer is crucial to establishing initial protection. A 2nd application (**FINISHING LAYER**) should be applied 4-5 days before the first predicted heat event. Subsequent (**RETOUCH**) applications should be made at 14 days or when rainfall exceeds 20mm.

APPLICATION CONDITIONS

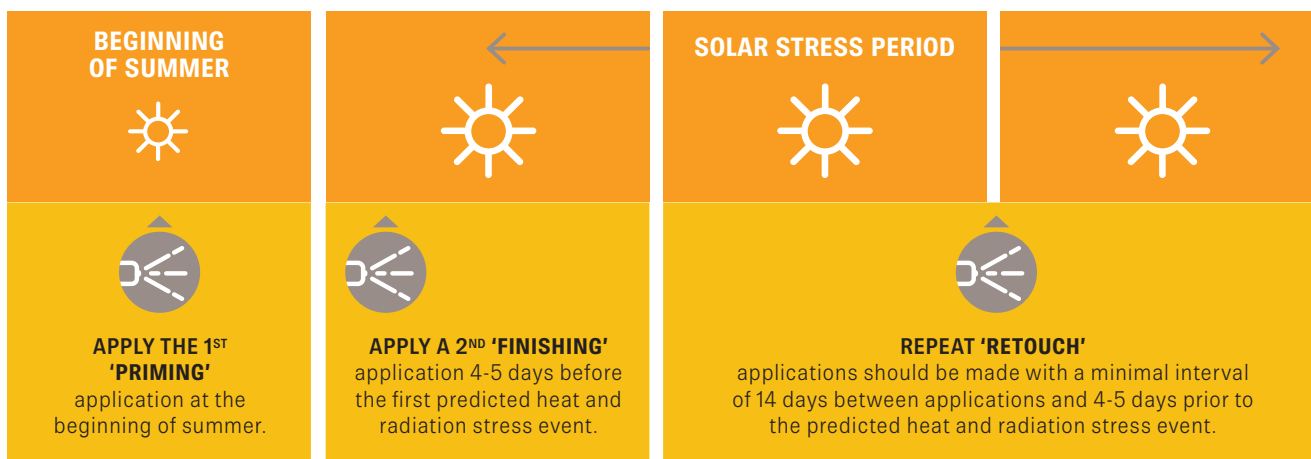
Avoid application to wet foliage as this can cause excessive runoff and inadequate film formation.

MIXING

Fill spray tank to 50% of capacity. Turn on agitation and add Dimmer followed by the remainder of the water needed to complete filling. Continue agitation until all of the material is sprayed from the tank. When mixing with other crop protection or nutrition products follow industry best practice mixing order.

COMPATIBILITY

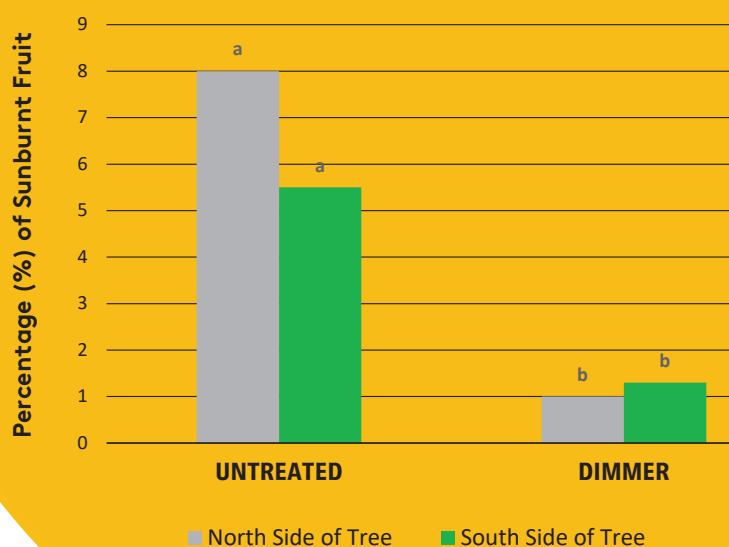
Dimmer is compatible with most agricultural chemicals. A jar compatibility test should be conducted to ensure compatibility. For further advice on compatibility contact your Grochem Regional Manager.



TRIAL RESULTS

Independent New Zealand trials have demonstrated excellent sunburn protection leading to improved marketable yields at harvest. In an independent trial in Nelson, Dimmer reduced sunburn incidence significantly (see chart) contributing to marketable yield increasing by 18%. Additional russet assessment of fruit at harvest also confirmed outstanding crop safety.

Percentage of sunburnt Royal gala apples at harvest Hope, Nelson



Statistical significance indicated by LSD lettering, treatments with different letters are statistically different. LSD (5%): North Side = 1.8%; South Side = 1.6%.

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