Product sheet – Chrysal LeafShine & Seal

General

- For a natural shine of leaves of plants, cut flowers and cut foliage.
- Increases sales; improves shelf presentation by healthy and fresh looking plants.
- Reduces transpiration by a total coating of the leaves. Still allowing plant respiration.
- No phytotoxic effect on leaves or flowers.
- Odourless, water based product, no chill damage risk.
- Available in 1 L, 5 L, 200 L and 600 L sizes.
- Effects last for up to a month.

Shine effects

- Provides an even coating on the leaves without drops and spots.
- Makes dust, residue, white lime and mildew spots invisible.
- Levels of gloss can be adjusted dependant on dosage.
- Improves colour contrast between leaves and flowers.

Seal effects

- Increases shelf life by 1-3 days, depending on the transpiration rate of the plant.
- Reduces transpiration by partly sealing plants' stomata without causing any damage to the plant.
- Plants need watering less frequently during the retail stage.
- Prevents premature wilting of individual plants in arrangements.

Applications

- For use by growers, exporters and packers.
- Apply through plant sprayer, backpack sprayer, spray boom, spray tunnel or atomizer. When pressure sprayers are used, set pressure at 2 bar.
- A protective film appears after application, once the water has evaporated (drying time depends on the humidity, but can take up to 4 hours).
- Plants can be sleeved or packed into boxes immediately after Chrysal LeafShine & Seal application without the risk of residue drop formation or fungal diseases.
- For more information see page 2 for dosage and page 3 for crop list.
- We advise small scale tests prior to large scale application of the product. For test protocol see page 4.

Savings / sales effect

- 10% average waste reduction.
- Improved sales and better margins.







Recommendations

- Store in a dark and dry place, preferably between 5°C and 15°C.
- Shelf life: 12 months, stored under the right conditions.
- No need to clean the plants beforehand.
- Spray both upper and lower leaf surfaces for best seal effect.
- Spraying on Impatiens and Poinsettia is not recommended.
- Avoid accumulation of spray mist in the heart of plants.
- Plants should not be placed in direct sunlight whilst being sprayed or before completely dry.
- Solution can be re-used / stored for a maximum of 48 hours.
- Do not mix residual solutions with freshly made ones.
- Avoid spraying furniture, walls and floors to prevent stains and the risk of slipping due to the oil based product. Use a water proof mat if necessary to avoid spray residue on floors.
- Because of oil content in Chrysal LeafShine & Seal, Chrysal recommends to clean all equipment straight after use with a detergent / soap solution.
- If re-using the product a filter is necessary. Use a fine filter ± 50μm (e.g. Mahle amaFlow).

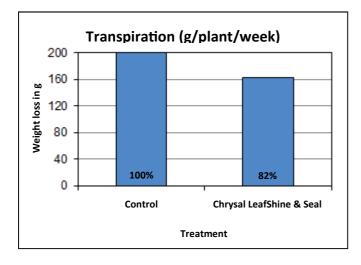
Dosage

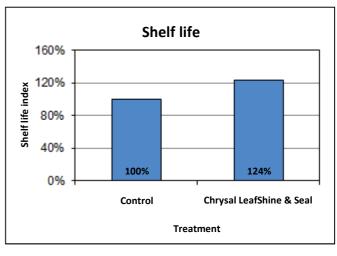
Dilute concentrate with tap water to get the required effect. Shake or stir well both concentrate and ready-to-use solution before use.

Dosage	SHINE effect Spray upper leaf surface Fine mist	SEAL effect Spray upper and lower leaf surface Small droplets till run off
1:20 (50 ml/l)	High-gloss	Plant with high transpiration e.g. Hydrangea, Lavandula
1:40 (25 ml/l)	Gloss	Most plants
1:100 (10 ml/l)	Silk-gloss	Not advised

Test Results

The following graphs show the effect of Chrysal LeafShine & Seal on transpiration and shelf life of potted plants compared to no treatment at all.







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Spathiphyllum 'Chopin'



Control Photo taken: day 8



Treatment: Chrysal LeafShine & Seal Photo taken: day 8

Chrysanthemum 'Classic Yellow'



Control Photo taken: day 14



Treatment: Chrysal LeafShine & Seal Photo taken: day 14

Crop list

Tests show a positive effect of Chrysal LeafShine & Seal on the following plants:

Anthurium	Cupressus	Hydrangea	Rhododendron
Areca	Dieffenbachia	Jasminium	Rosa
Aster	Dipladenia	Lavendula	Schefflera
Azalea	alea Dracaena		Spathiphyllum
Beaucarnia (Nolina)	Ficus	Nephrolepis	Stephanotis
Begonia	Gardenia	Olea	Tagetes
Bougainvillea *buttiana	Gerbera	Pachira	Thuja
Calathea	Hebe	Pelargonium (Geranium)	Viburnum
Campanula	Hedera	Petunia	Vinca minor
Celosia	Helianthus	Phaleanopsis	Yucca
Chamaecyparis	Helleborus	Picea	Zamioculcas
Chrysanthemum	Hibiscus rosa-sinensis	Pinus	
Citrofortunella	Howea	Primula	

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Want to test the effects of Chrysal LeafShine & Seal for yourself? With this test protocol we will guide you.

The test should always contain treated and control plants, in order to compare. Select plants that are uniform in stage of development. Use at least 6-10 plants per treatment.

Test procedure:

- 1. Fully saturate the soil with water and number each plant related to a treatment.
- 2. Shake concentrate well before preparing the solution.
- 3. Prepare the solutions in a plastic bottle or measuring cup and shake/stir well before spraying. Dosage: 25 ml/l or 50 ml/l.
- 4. Spray the solution on the plants till run-off, spray upper and lower leaf surfaces.
- 5. Place plants in a room with a stable climate and make sure that the plants on each treatment stand in similar conditions to be able to make comparisons.
- 6. Do not re-water the plants.
- 7. Weigh the plants each day.

Example observations:

Record the weight loss in grams in the first 7 days:

	Weight of the plant (g)				
	Day 1	Day 3 / 4	Day 7		
Control	505	460	380		
LeafShine & Seal	505	490	445		

• Record the time (in days) till wilting:

	Wilting of the plant (day)						
	Plant 1	Plant 2	Plant 3	Plant 4	Plant 5	Plant 6	Average shelf life
Control	5	6	6	7	5	7	6
LeafShine & Seal	8	7	8	9	7	9	8

Take pictures to record the effects you have seen.

Calculate use

In case there is a need to calculate the use of Chrysal LeafShine & Seal you can calculate the use by logging the difference in used solution (RTU) before and after treatment, divided by the number of plants.

Example: Start 1000 ml

Remaining 340 ml

Used RTU 660 ml per 45 plants -> 15 ml / plant

Chrysal has a ROI model to calculate the cost of the concentrate in total. Please contact your local sales person for this.

