



Florencio™ Orange

Begonia Florencio™

Culture Guide

Botanical name: *Begonia hybrida*

Product form: Vegetative

Containers: Quarts, Gallons, Hanging Baskets

Habit: Mounded

Garden Specifications

Garden Height: 18–24" (45–60 cm) tall

Garden Width: 12–18" (30–45 cm) wide

Exposure: Part shade

USDA zone: 9–11

AHS zone: 1–10

Product use: Containers, Hanging Baskets, Patio Pots, Combos

Propagation of Unrooted Cuttings

Root emergence: 10–12 days

Rooting hormone: Not Recommended

Bottom heat temp.: 70–72 °F (21–22 °C) for the first three weeks. After roots are well developed, temperatures can be lowered to hold and tone the cuttings.

Misting: Mist schedules vary depending on light and temperature conditions. Apply just enough moisture to rehydrate the cuttings and keep them from wilting. Cuttings should be hydrated and in a non-wilted stage within 24 hours after sticking. Cuttings that continue to wilt heavily after 24 hours will callus unevenly and will be delayed in rooting. CapSil® (spray adjuvant) can be sprayed on the cuttings at a rate of 2–4 oz/100 gal within 1–2 days after sticking to help in rehydration of the cuttings. Misting should be significantly reduced after 3–4 days and after cuttings become fully hydrated. Applying too much mist early on can lead to significant Botrytis infections on Begonias.

Rec. tray size: 105-cell (30 mm) or larger

Propagation timing: 4–5 weeks for a 105-cell plug; add more rooting time for significantly larger plug sizes.

Temperature

Day: 70–72 °F (21–22 °C)

Night: 70–72 °F (21–22 °C)

Lighting

Day extension lighting: Necessary to 14 hours

Light intensity: 1,000–1,200 foot candles (200–250

micro mols) for the first two weeks after sticking or until root development occurs. Light levels can be increased up to 3,000 foot candles (600 micro mols) as rooting increases and the cutting matures.

Day length response: Obligate long day

Daily light integral: 4–6 mols/day for the first two weeks after sticking or until root development occurs. DLI can be increased to greater than 12 mols/day after root formation.

Media pH: 5.8–6.2

Media EC: SME EC: 0.9–1.3 mS/cm, PourThru EC: 1.4–2.0 mS/cm

Fertilizer: Begin fertilization at 50 ppm nitrogen when roots become visible. Rates can be increased up to 100 ppm nitrogen after roots become well developed. Use primarily Cal-Mag® Plus (calcium nitrate + magnesium nitrate) fertilizers in propagation to prevent unwanted stretch.

Pinching: Recommended

Plant growth regulators (PGRs): 250–500 ppm Cycocel®

Finishing

Temperature

Day: 68–70 °F (20–21 °C)

Night: 62–64 °F (17–18 °C)

Average daily temperature: 65 °F (18 °C)

Lighting

Day extension lighting: Necessary to 14 hours

Light intensity: 4,000–6,000 foot candles

Day length response: Obligate long day

Daily light integral: 12–14 mols/day

Transplanting: Transplant directly into the finished container. Place the rooting media slightly above the level of media in the container. Make sure that the root ball is slightly above the media and that the cutting is situated in the center of the pot. Important - point leaves to the outside of the container for best flower presentation..

Media pH: 5.8–6.2

Media EC: SME EC: 1.5–2.1 mS/cm, PourThru EC: 2.3–3.2 mS/cm

Fertilizer: 200–250 ppm N

Pinching: Yes, 1 pinch(es) are recommended either in propagation or 7–10 days after transplant. Pinch to node #3.

Plant growth regulators (PGRs): Cycocel® 250–500ppm

Moisture level: Media should be allowed to dry between irrigations. Alternate between moisture level 2 and 3

2 - MEDIUM: Soil is light brown in color, no water can be extracted from soil, and soil will crumble apart.

3 - MOIST: Soil is brown in color, strongly squeezing the soil will extract a few drops of water, and trays are light with no visible bend.

Common pests: Thrips

Common diseases: Tospovirus, Botrytis

Scheduling

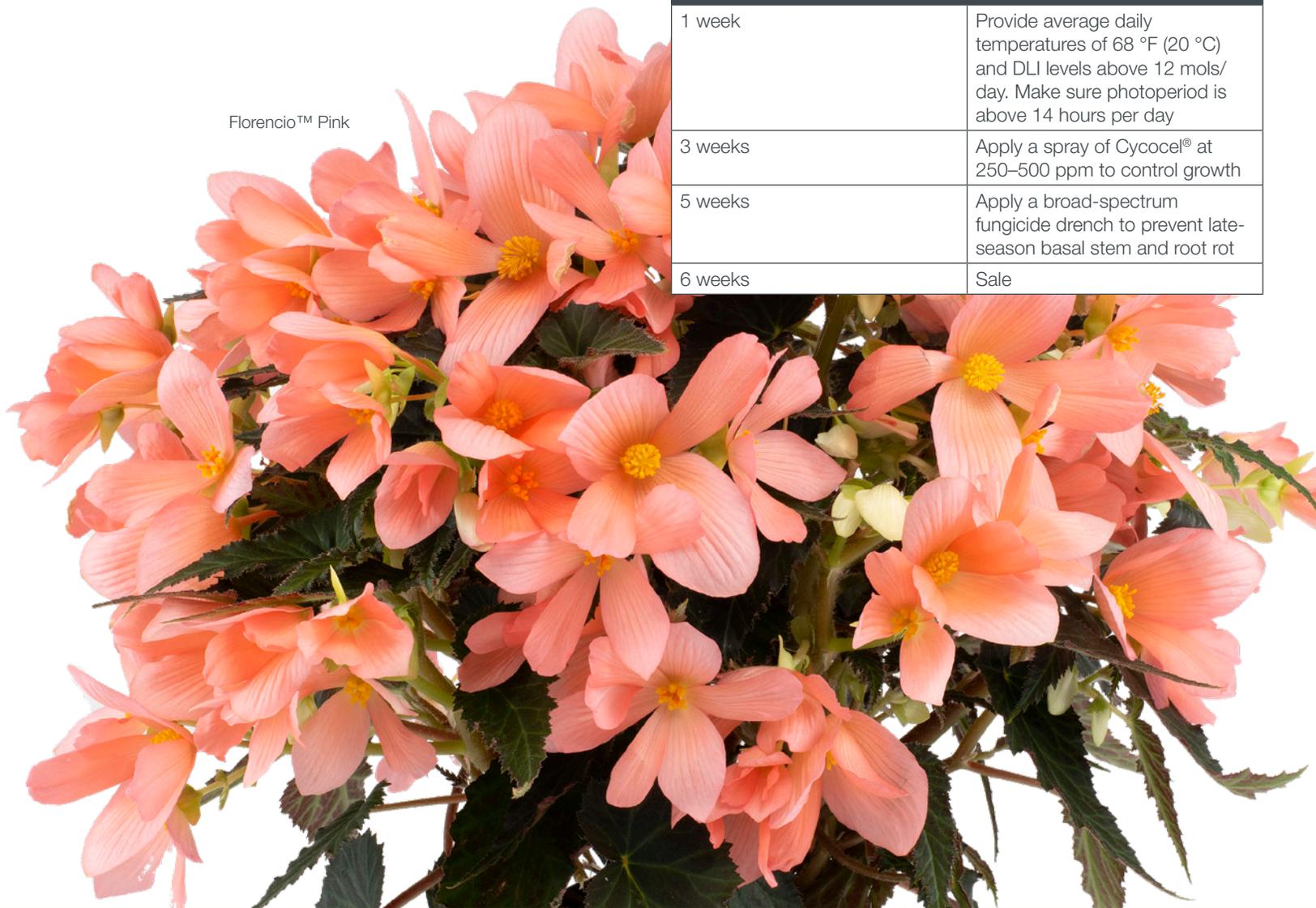
Size	Crop Time	Plants Per Pot
1.0 quart (4.5 to 5 inch)	6–9 weeks	1 ppp
1.25 to 2.5 quart (5.5 to 6.5 inch, trade gallon)	9–12 weeks	2–3 ppp
1.5 gallon hanging basket (10 inch basket)	10–14 weeks	3–4 ppp

Estimated finish crop time is from transplant of a 105-cell tray and finished at an average daily temperature (ADT) of 68 °F (20 °C).

Example crop schedule for a 1.0 quart

Weeks From Transplant	Description
1 week	Provide average daily temperatures of 68 °F (20 °C) and DLI levels above 12 mols/day. Make sure photoperiod is above 14 hours per day
3 weeks	Apply a spray of Cycocel® at 250–500 ppm to control growth
5 weeks	Apply a broad-spectrum fungicide drench to prevent late-season basal stem and root rot
6 weeks	Sale

Florencio™ Pink



syngenta flowers

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