

ANNUAL PROPAGATION **BEGONIA UNSTOPPABLE**

Begonia x hybrida



TRAY & ROOTING

Form	Vegetative Cutting (URC)
Rooting Hormone?	No
Tray Size	
Plants Per Cell	1
Days In Mist	14-18
Wks. From Stick To Transplant	4-5
Propagation Pinch?	Yes
Weeks To Pinch	3 *must be pinched early prior to reaching 5 node

FERTILITY

Fertilize Through Mist?	None
Fertilizer Rate	50-100ppm N
EC Range	Moderate: (2.0-3.5 mS via SME)
pH Range	5.6-6.2

TEMPERATURE

Average Soil Temp	21-24°C
Average Air Temp (Day)	24-27°C
Average Air Temp(Night)	20-22°C

IRRIGATION

Irrigation Frequency	Level 2: Allow media to dry moderately between thorough waterings
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LIGHT

Daylength Neutral?	No
Supplemental	14 hour days
Benefits From Shade?	Yes

POTENTIAL DISEASES

Botrytis, Pythium, Powdery Mildew

POTENTIAL PESTS

White Fly, Spider Mite, Thrips

PGR SUGGESTIONS

- Chlormequat

CULTIVAR LIST

Upright Fire, Upright White, Upright Salmon



TIPS

- Unpack and sort cuttings in a cooler at 12°. Store in cooler overnight if not stuck immediately.
- Use care when sticking to not cover the apical growing point of the cutting by arranging the large leaves in one direction.
- Apply only enough mist to keep the cuttings turgid. Mist may be required both day and night for the first 10-14 days. Once cuttings begin to root, mist should be reduced and completely off by around day 20.
- Between September 21 and March 21, cuttings must receive long photo periods during propagation to prevent premature flowering. Mum lighting from 10pm to 2am or HID supplemental light from sundown to 2 am can be used to provide long days.

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ANNUAL FINISHING **BEGONIA UNSTOPPABLE**

Begonia x hybrida



CONTAINER SIZE	PLANTS PER POT	TRANSPLANT TO FINISH (WEEKS)
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10 cm	1	6-9
15 cm	2-3	9-12
22 cm and up	3-4	10-14

FERTILITY

Fertilizer Rate	100-150 ppm N
EC Range	Moderate: (2.0-3.5 mS via SME)
pH Range	5.6-6.2

TEMPERATURE

Day Temperature	20-24°C
Night Temperature	18-23°C

IRRIGATION

Irrigation Frequency	Level 3: Keep media moderately moist with mild dry cycles
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LIGHT

Daylength Neutral?	No
Optimum Light Level	3,000-7,000 fc (32,300-75,300 lux)
Supplemental	Night interruption
Benefits From Shade?	Yes

PINCHING

Finishing Pinch?	Optional
Transplant to Pinch (days)	If not pinched in prop, pinch upon transplant to three nodes

POTENTIAL DISEASES

Botrytis, Pythium, Powdery Mildew

POTENTIAL PESTS

White Fly, Spider Mite, Thrips

PGR SUGGESTIONS

- Chlormequat
- Low rates Daminozide or Chlormequat or a tank mix spray can be applied to control growth as needed.



TIPS

- Unstoppable Begonias finish best under moderate light of 3000-5000 fc (32000-54000 lux). Avoid moving plants from moderate light to high light or to high temperatures without acclimating first. This can result in scorched leaves.
- Plants finished under short days result in small plants and poor branching.
- Allow media to dry between watering.
- If not pinched in the liner, pinch after transplant leaving 3 nodes.

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ANNUAL

FEATURES AND BENEFITS

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KEY INFORMATION

Primary Common Name	Begonia
Consumer Watering Instructions	Keep soil evenly moist, but not saturated.
Bloom Time	Blooms Spring to Autumn
Exposure	Full Sun to Full Shade
Height	12-16 inches (30-41 cm)
Garden Spacing	30-41 cm

DESCRIPTION

Yes

CONSUMER APPEAL

- Unstoppable begonias feature single flowers and dark foliage. All tolerate more heat and sun than traditional green leaved begonias, especially if kept well-watered.
- Wonderful colors that pop against deep begonia foliage.
- Resistant to rabbits and the allelopathic biochemicals produced by black walnut trees.

GARDEN ATTRIBUTES

- Tough plants tolerant of heat and stress.
- Ideal for patio containers, but can perform well in some landscapes as well.
- Prefers moist, well drained soils.
- Wonderfully colorful blooms produced continuously all summer long that are perfect for high traffic areas.

NATIVITY

Of hybrid origin: parental lineages native to South and



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