

Pansy Matrix[®] F₁ Series

(*Viola x wittrockiana*)

Annuals Culture (revised 01/23/21)

Make your life easier

Matrix is your best option for longer days and warmer growing. Its uniformity of timing and plant habit simply can't be beaten by any other varieties in the marketplace. Only Matrix has a tight bloom window in Autumn production that allows every colour to ship the same week.

Plug crop time: 5 weeks

Transplant to finish: Spring 6 to 8 weeks, Autumn 4 to 6 weeks

- Matrix offers less handling, less waste and exceptional holding power for higher profitability.
- 7-day bloom window across all colours in Autumn production makes scheduling and growing easy.
- Extra-large flowers hold up to the heat and PGR stress in Summer/Autumn production.
- Low-maintenance series gives pro landscapers the best choice for uniform colour striping, plus the most flowers per plant of any large-flowered pansy.

General Information

| Exposure | Bloom Season | Height | Spread | Spacing |
|------------------|--------------------------------------|------------------|------------------------|------------------|
| Partial Sun, Sun | Early Spring, Spring, Autumn, Winter | 8 in. (20 cm) | 8-10 in. (20-25 cm) | 8 in. (20 cm) |

Germination

| Seed Form | Recommended Plug Size | Seeds/Cell | Plug Crop Weeks | Days from 50% to maximum germination | Initial Media pH/EC (1:2) | Cover Seed |
|-----------|-----------------------|------------|-----------------|--------------------------------------|-----------------------------|------------|
| PRM, RAW | 288 | 1 | 5 | 3-4 | 5.5-5.8 pH 0.75 mmhos/cm | Yes |

Plug Production

| | Stage 1 | Stage 2 | Stage 3 | Stage 4 |
|--------------------|----------------------|---|--|--|
| Moisture | Level 4 | Level 3-4 | Level 3-4 | Level 2-4 |
| Temperature | 65-70°F (18-21°C) | 60-65°F (16-18°C) | 60-65°F (16-18°C) | 55-60°F (13-16°C) |
| Light | | 2,500 f.c. (26,900 Lux) | 2,500 f.c. (26,900 Lux) | 5,000 f.c. (53,800 Lux) |
| Fertilizer | | Less than 100 ppm N (Less than 0.7 EC) | 100 to 175 ppm N (0.7 to 1.2 EC) | 100 to 175 ppm N (0.7 to 1.2 EC) |
| PGR | | | ancymidol/5-10 ppm/Spray daminozide/1,500-2,500 ppm/Spray | ancymidol/5-10 ppm/Spray daminozide/1,500-2,500 ppm/Spray |

Fertilizer Notation

It is best to use a nitrate-based fertilizer with low phosphorus to reduce stretch. Maintain a media pH of 5.5 to 5.8 and EC at 0.7 to 1.0 mS/cm (1:2 extraction). A higher pH (greater than 6.2) can induce Boron deficiency and also encourages fungal black root rot caused by *Thielaviopsis* sp.

Propagation Key Tips

Adjust PGR rates and frequency of application depending on local conditions in Stages 3 and 4. Northwestern Europe: Can use 1 to 2 applications of B-Nine/Alar (daminozide) at 1,280 ppm (1.5 g/l of 85% formulation or 2 g/l of 64% formulation).

Growing on to Finish

| Growing on Temperature | Target Media pH/EC (1:2) | Fertilizer | Daylength |
|--|--------------------------------|-------------------------------------|----------------------|
| (day) 60-70°F (16-21°C) (night) 50-55°F (10-13°C) | 5.5-5.8 pH 1.5-2.0 mmhos/cm | 175 to 225 ppm N (1.2 to 1.5 EC) | Facultative Long Day |

Crop Scheduling

| Container Size | Plugs/Pot | Crop Time | Season | PGR |
|------------------------------|-----------|-------------|--------|--|
| Cell Pack | 1 (ppp) | 4-5 (weeks) | Autumn | daminozide/chlormequat chloride tank mix 2,500/250-5,000/500 ppm Spray |
| Cell Pack | 1 (ppp) | 4-5 (weeks) | Autumn | paclobutrazol 0.125 ppm Drench |
| 4"/4.5"/Quart/10 cm | 1 (ppp) | 5-6 (weeks) | Autumn | daminozide/chlormequat chloride tank mix 2,500/250-5,000/500 ppm Spray |
| 4"/4.5"/Quart/10 cm | 1 (ppp) | 5-6 (weeks) | Autumn | paclobutrazol 0.125 ppm Drench |
| 10" Pot or HB/3 Gallon/25 cm | 7-9 (ppp) | 4-5 (weeks) | Autumn | daminozide/chlormequat chloride tank mix 2,500/250-5,000/500 ppm Spray |

Common Problems

Insects: Fungus Gnats and Shore Flies in plug stage and Aphids in early stages after transplant. Disease: Damping off, Black Root Rot, Foliar Leaf Spots, Botrytis

Finishing Key Tips

Adjust PGR rates and frequency of application depending on local conditions.

NOTE: Growers should use the information presented here as guidelines only. PanAmerican Seed recommends that growers conduct a trial of products under their own conditions. Crop times will vary depending on the climate, location, time of year, and greenhouse environmental conditions. It is the responsibility of the grower to confirm the treatment is available in their region as well as read and follow all the current label directions relating to the products. Nothing herein shall be deemed a warranty or guaranty by PanAmerican Seed of any products listed herein. PanAmerican Seed's terms and conditions of sale shall apply to all products listed herein.

Variety Pictures



PanAmericanSeed™

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