

Primula acaulis F1 Pioneer Series



Life cycle	Hardy annual/biennial
Family/origin	Primulaceae/Western and Southern Europe
Popular uses	Pot and pack, suitable for garden borders and beds, mixed containers
Mature plant height	15-20 cm (6-8")
Mature plant width	15 cm (6")
Pot size	9-12 cm (3,5-5") pot and packs
Plants per pot	1 3 per pot for 15 cm (6") and larger
Sun exposure	Sun or partial shade
Water requirements	Normal
Flowering season	Late winter-early spring
Media	A well-drained, porous media is best to prevent over watering pH 5.5-6.2 EC 0.5-1.2 (50-100 ppm) In general clay is added to this: 10 a 15%
Growing temperature	Plants can be grown at 5°C (41°F) During the summer grow as cool as possible by ventilating and shading Autumn and winter at an average of 5-7°C (41-45°F) day and 4°C (39°F) night temperature
Light	Increasing daylength induces flowering
Fertilizer needs	Balanced N:P:K fertiliser as needed recommended EC 1.4-1.8 (100-150 ppm) Primula Acaulis is moderate salt sensitive plant
Crop time	18-20 weeks
Hardiness zone	Z 4-9



Mixture

Growth regulators

Daminozide (Dazide, B-Nine) or Paclobutrazol (Bonzi), Propiconazole (Tilt)

Common Diseases

Botrytis, Leafspots, Chalara elegans, Pythium and Phytophthora

Common Pests

Aphids, Leaf miner, Fungus Gnats/ Sciared fly, Thrips and Caterpillar

Pinching

No need

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Plug Production



Seed forms	Raw-pro-seed
Seed count	900-1,050 sds/gr (27,000 - 29,000 sds/oz)
Recommended plug size	480-264
Seeds cell	1
Vermiculite cover	Normal
Stage 1 Germination	Media pH 6.0 Temperature 18-20°C (64-68°F). Temperature is critical in first stages (1 and 2). Temperatures exceeding above 25°C (77°F) will slow down germination and result in low, uneven emergence EC 0.5-1.0 (50-75 ppm) Radicle emerge will occur in 8-10 days Keep media moist but do not over water Light is not necessary for germination but will improve results
Stage 2 Stem and cotyledon	Keep media moist, seeds can be covered with vermiculite to keep humidity up. Placing under a mist system will improve results Temperature: 18-20°C (65-68°F), if possible, reduce temperature to 15-16°C (59-61°F) once cotyledons are fully developed. High temperatures will result in stretched seedlings EC 0.5-1.0 (50-75 ppm) Use a balanced fertilizer with a 1:2 ratio N:K Light: avoid direct sunlight, shade when light levels are over 15,000 lux (1,500 fc)
Stage 3 Growth and development	Keep media moist, do not over water. The Primula root system is very sensitive. Over watering will result in loss of root mass or even dying of the root tips. This will result in weak growing seedlings Temperature: 15-16°C (59-61°F) EC 0.5-1.0 (50-75 ppm) Fertilizer see stage 2. Avoid high salt levels by applying fertilizers at regular intervals with an occasional clear water flush
Stage 4 Ready for transplanting	Moisture: reduce moisture levels and allow medium to dry between watering Do not allow plants to wilt Temperature: 13-15°C (54-59°F) Fertilizers: see stage 3
Plug crop time	6-7 weeks
Approximate finish time	11-13
Special tips	Primula is sensitive to lack of iron. The leaf green gets a lighter colour while the veins stay dark green or turn into reddish. Water with a fast working iron chelaat, wash afterwards to prevent burning Keep humidity down by proper ventilation during the total growing period