**GERANIUM**

**GERANIUM x cantabrigiense**

‘Biokovo’

**PROPAGATION**

**TRAY & ROOTING**

<table>
<thead>
<tr>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td>Unrooted Cuttings</td>
</tr>
<tr>
<td>Rooting Hormone</td>
<td>Yes</td>
</tr>
<tr>
<td>Tray Size(s)</td>
<td>72, 105</td>
</tr>
<tr>
<td>Plants Per Cell</td>
<td>1</td>
</tr>
<tr>
<td>Wks. From Stick To Transplant</td>
<td>6-8</td>
</tr>
<tr>
<td>Pinch?</td>
<td>Optional</td>
</tr>
<tr>
<td>Days from stick to pinch</td>
<td>21-28</td>
</tr>
</tbody>
</table>

**FERTILITY**

<table>
<thead>
<tr>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fertilize Through Mist?</td>
<td>No</td>
</tr>
<tr>
<td>Fertilizer Rate</td>
<td>50-75 ppm N</td>
</tr>
<tr>
<td></td>
<td>(20-6-22 or 22-5-16)</td>
</tr>
<tr>
<td></td>
<td>[15-0-15 under low-light</td>
</tr>
<tr>
<td></td>
<td>conditions]</td>
</tr>
<tr>
<td>EC Range</td>
<td>Moderate: (2.0-3.5 mS via</td>
</tr>
<tr>
<td>pH Range</td>
<td>5.4-6.0</td>
</tr>
</tbody>
</table>

**TEMPERATURE**

<table>
<thead>
<tr>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Average Soil Temperature</td>
<td>72-78°F (22-26°C)</td>
</tr>
<tr>
<td>Average Air Temperature</td>
<td>65-72°F (18-22°C)</td>
</tr>
</tbody>
</table>

**IRRIGATION**

<table>
<thead>
<tr>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Irrigation Frequency</td>
<td>Level 3: Keep media</td>
</tr>
<tr>
<td></td>
<td>moderately moist with</td>
</tr>
<tr>
<td></td>
<td>mild dry cycles</td>
</tr>
</tbody>
</table>

**LIGHT**

<table>
<thead>
<tr>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supplemental</td>
<td>No</td>
</tr>
<tr>
<td>Benefits From Shade?</td>
<td>No</td>
</tr>
</tbody>
</table>

**POTENTIAL DISEASES**

Fusarium, rust, bacterial leaf spot

**POTENTIAL PESTS**

aphids, whitefly, spider mites

**PGR SUGGESTIONS**

- Optional 300-500 ppm Florel (3.9% Ethephon)

**CULTIVAR LIST**

Biokovo

**TIPS**

- A rooting hormone powder or rooting hormone spray (A Hortus IBA Water Soluble Salts spray at 200ppm IBA) is recommended for uniformity of rooting.

**WE'RE HERE TO HELP YOU GROW**

Zoltan Kovacs - Product Manager
Z.Kovacs@DummenOrange.com
641-850-8551
DummenOrange.com
**PERENNIAL**

**FINISHING**

*Geranium x cantabrigiense*

‘Biokovo’

### VERNALIZATION

<table>
<thead>
<tr>
<th>Vernalization Required?</th>
<th>Yes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vernalization Duration Minimum</td>
<td>6-8 weeks</td>
</tr>
<tr>
<td>Vernalization Temperature</td>
<td>35-40°F (1.6-4.4°C)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CONTAINER SIZE</th>
<th>PLANTS PER POT</th>
<th>TRANSPLANT TO FINISH (WEEKS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 in./Gal. (15-16 cm)</td>
<td>1</td>
<td>8-10</td>
</tr>
<tr>
<td>8-10 in. (19-22 cm)</td>
<td>2-3</td>
<td>10-12</td>
</tr>
</tbody>
</table>

### FERTILITY

- **Fertilizer Rate:** 100-150 ppm N (20-6-22 or 22-5-16 [15-0-15 under low-light conditions])
- **EC Range:** Moderate: (2.0-3.5 mS via SME)
- **pH Range:** 5.8-6.2

### TEMPERATURE

- **Day Temperature:** 65-75°F (18-24°C)
- **Night Temperature:** 55-65°F (13-18°C)

### IRRIGATION

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

### LIGHT

- **Photoperiodic requirements:** Long day: 12+ hours daily
- **Supplemental?:** None
- **Benefits From Shade?:** No

### PINCHING

- **Finishing Pinch?:** No
- **Transplant to pinch (days):** N/A

### POTENTIAL DISEASES

Fusarium, rust, bacterial leaf spot

### POTENTIAL PESTS

aphids, whitefly, spider mites

### PGR SUGGESTIONS

- 2500 ppm B-Nine (85% Daminozide) as needed
- 3-5 ppm Sumagic (0.055% Uniconazole) as needed

### TIPS

- Apply PGRs after the plant fills its finishing container.
- Vernalization is ABSOLUTELY required for proper flowering.

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Z.Kovacs@DummenOrange.com
614-850-9551
DummenOrange.com
PERENNIAL

FEATURES AND BENEFITS

*Geranium x cantabrigiense*

‘Biokovo’

**KEY INFORMATION**

First Year Flowering?  No

Bloom Time  Spring

Exposure  Full Sun

Hardiness Zone  4-8

Height  10-14 inches (25-36 cm)

Width  18-24 inches (46-60 cm)

**DESCRIPTION**

All Geraniums offered by Dümmen Orange sport a mounding habit, all-season flowering, and very vivid colors.

**CONSUMER APPEAL**

- The crazy flower-power of ‘Biokovo’ is a true butterfly magnet!
- The mildly scented foliage of geraniums is enough to deter rabbits and deer.

**GARDEN ATTRIBUTES**

- Geranium is a good choice for low lying moist areas in rock gardens, along borders, and as a mass planting where it acts as a ground cover.
- The mildly scented foliage of geraniums is enough to deter rabbits and deer.
- Prefers evenly moist soil but can tolerate very mild drought conditions when well established. A good choice for amended clay soils in part shade locations.
- The Geranium genus has one of the most interesting seed dispersal methods of any plant species. The seed pods are spring-loaded and when ripe, a light touch or breeze is enough to trigger the mechanism and send the seeds flying over several meters/yards!

**NATIVITY**

Of hybrid origin: parents native to the Mediterranean and Southern Europe.

**COMPANION PLANTS**

Alstroemedia, Paeonia, Agastache, Phlox, Veronica, Aster(Symphyotrichum)

**COMMON NAME(S)**

geranium, cranesbill

**PHOTO DESCRIPTION**

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