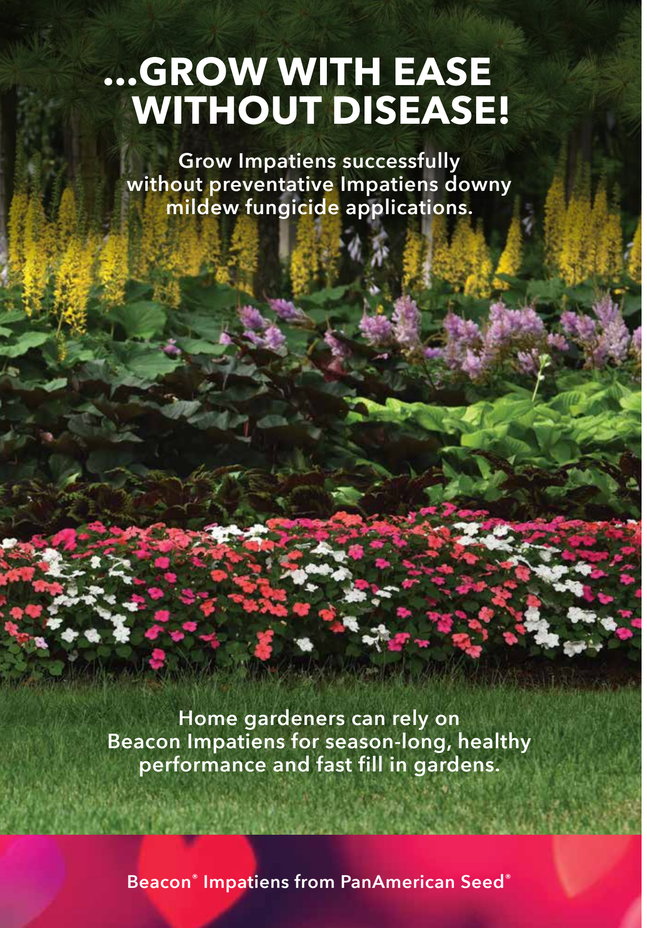

...GROW WITH EASE WITHOUT DISEASE!

Grow Impatiens successfully without preventative Impatiens downy mildew fungicide applications.

Home gardeners can rely on Beacon Impatiens for season-long, healthy performance and fast fill in gardens.

Beacon® Impatiens from PanAmerican Seed®

PanAmerican Seed®

622 Town Road • West Chicago, Illinois 60185-2698 USA
630.231.1400 or 800.231.7065
Fax. 630.293.2357
panamseed.com makes it easier for you to grow

Bring *Impatiens walleriana* back into production without the risk of disease!

Call out Beacon Impatiens by name with tags, bench cards, posters and pack handles.

Check out our retail display items.

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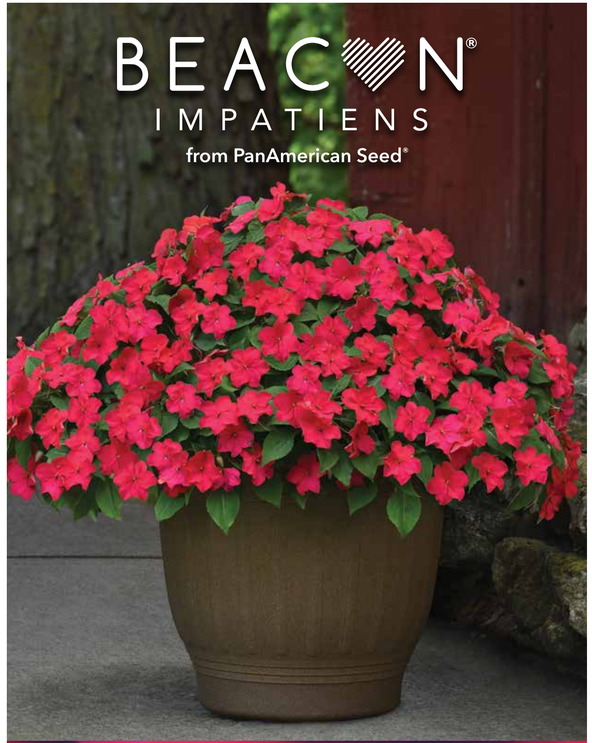

BEACON®

IMPATIENS

from PanAmerican Seed®

GROWS STRONGER, SHINES LONGER

IMPATIENS WALLERIANA...

Beacon® Impatiens has high resistance to the cause of Impatiens downy mildew, so it stays healthy and in color.

For growers and landscapers, there will be no costly middle-of-the-season replacements with Beacon Impatiens.

BEACON CARES

beacon noun
bea·con | /ˈbēkən
a source of light and inspiration

Beacon Impatiens offers high resistance to the widely prevalent populations of *Plasmopara destructor*, the cause of Impatiens downy mildew, offering the opportunity to bring back into production a well-known, in-demand, easy-to-grow and versatile product for gardens and landscapes.

Your Beacon purchase also shines a light on a lesser-known charity. In the spirit of bringing light and inspiration to gardens everywhere, PanAmerican Seed® donates a percentage of its global Beacon Impatiens sales to less-widely known charitable organizations each year.

A COLORFUL SELECTION

LIGHTHOUSE MIXES

Named after well-known lighthouses in locations where Impatiens downy mildew has been a significant problem.

Find out how you can help!

NO-RISK COLOR FOR THE SHADE

TRIAL RESULTS

In our extensive trials process, young Beacon Impatiens plants were challenged with aerial inoculation of *Plasmopara destructor* sporangia under high disease pressure in environmentally controlled conditions.

Resistance screens were conducted in Venhuizen, Netherlands and Elburn, Illinois greenhouses and in the Ball Helix laboratory in West Chicago, Illinois. All hybrids were screened a minimum of 16 times.

The results showed a high correlation between the greenhouse/lab screens and field screens. Without any use of chemicals, Beacon Impatiens showed high resistance to Impatiens downy mildew in all of these trials.

GREENHOUSE DEMONSTRATIONS

4 weeks after inoculation
Beacon® is thriving, Venhuizen, NL, Week 9, 2018

Super Elfin® XP Salmon vs. Beacon® Coral

Super Elfin® Bright Orange vs. Beacon® Orange

CONTAINER DEMONSTRATIONS

9 weeks after transplant
Beacon® is thriving, Venhuizen, NL, Week 35, 2018

Super Elfin® XP Violet (Top) vs. Beacon® Violet Shades

Beacon® Orange (Top) vs. Super Elfin® Bright Orange

LANDSCAPE/FIELD DEMONSTRATIONS NATURAL INFECTION

7 weeks after transplant
Beacon® is thriving, Elburn, IL, Week 32, 2018

Super Elfin® XP White vs. Beacon® White

11 weeks after transplant
Beacon® is thriving, Venhuizen, NL, Week 36, 2018

Super Elfin® XP White vs. Beacon® White

Super Elfin® XP Salmon vs. Beacon® Coral

In both field trials, no Impatiens downy mildew preventative fungicides were ever applied to the plant material.

CULTURE PRACTICES FOR GROWING BEACON IMPATIENS

IMPATIENS
Impatiens walleriana

PRO LANDSCAPE PERFORMER

Beacon® Series F$_1$

Beacon is easy to include in your current production. Below are the general greenhouse guidelines to grow Impatiens without the risk of disease.

Plug crop time: 4 to 5 weeks
Transplant to finish: 3 to 4 weeks

PLUG CULTURE

Beacon Impatiens is offered in coated seed form. Sow 1 seed per cell in a recommended 288 plug size. Germination takes 3-6 days at 68-77°F (20-25°C); do not cover the seed. Light benefits germination. Maintain the media pH at 6.0-6.2 and EC of 0.5-0.75 mmhos/cm during plug production. Keep moisture high at Level 4-5.

During **Stage 2**, provide moisture levels at 2-4 with temperatures at 64-73°F (18-23°C). Set light at 450-700 f.c. (4,800-7,500 Lux). Apply fertilizer less than 100 ppm N, less than 0.7 EC. (Note that White is slightly slower in Stages 1 and 2 than other colors.) Temperatures drop to 65-68°F (18-20°C) during **Stage 3**, with light and fertilizer regimens maintained the same as Stage 2. Set moisture at Level 2-3.

In **Stage 4**, keep moisture at Level 2-3 and lower temperatures again to 62-65°F (17-18°C). Light and fertilizer is the same as Stage 2 and 3.

PGR

Impatiens will respond to daminozide, paclobutrazol and uniconazol. Monitoring of water and fertilization can help with controlling plant growth and vigor.

GROWING ON TO FINISH

Temperatures for finishing Beacon Impatiens: **Day:** 70-75°F (21-24°C) **Night:** 62-68°F (17-20°C) The target media pH should be 6.2-6.5, with an EC of 0.75-1.0 mmhos/cm. Apply a fertilizer less than 100 ppm N, less than 0.7 EC. Beacon Impatiens are Day Neutral.

PREVENTATIVE CHEMICALS

Beacon exhibits high genetic resistance to Impatiens downy mildew without the use of chemicals. Beacon can be grown successfully without preventative IDM fungicide applications. Beacon is not immune to IDM; there are scenarios where preventive IDM fungicides may be recommended for Beacon, such as:

1) Receiving plugs or plants from a region where Impatiens are currently growing in the landscape and susceptible varieties are being grown at the recipient location.

2) Plugs or plants are being produced where Impatiens are currently growing in the landscape (which could expose greenhouse or nursery-grown plants to high levels of natural inoculum), and then shipping to other regions.

If IDM prevention is part of an overall spray program for susceptible varieties, Beacon's performance will not be affected if they are also treated.

Proper Impatiens production management practices are important for success. This includes water, fertilization and growth regulation best practices. In addition, regular scouting and environmental and cultural controls are recommended. If IDM, or any other diseases, are detected, take action to mitigate the spread and severity.

CROP SCHEDULING

CONTAINER SIZE	PLUGS/POT	CROP TIME	SEASON
Cell Pack	1 ppp	3-4 weeks	Spring
4"/4.5"/ Quart /10 cm	1 ppp	4-5 weeks	Spring
10" Pot or HB/ 3 Gallon/25 cm	3-5 ppp	8-10 weeks	Spring

Visit panamseed.com for current Terms & Conditions of Sale.
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Get your disease-resistant Impatiens with color that lasts.

Order Beacon Impatiens seed and plugs from your preferred distributor today.