

Report Submitted to Fine Americas, Inc.

**Evaluation of Piccolo 10 XC Spray
and Drench Applications on
Poinsettia**

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Evaluation of Piccolo 10 XC

Materials and Methods

Plant Species

- (*Euphorbia pulcherima*) 'Early Prestige'
 - (*Euphorbia pulcherima*) 'Enduring Red'
 - (*Euphorbia pulcherima*) 'Ice Punch'
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- Plants delivered 18 August 2010 from Paul Ecke Ranch (Encinitas, CA) to Purdue University (West Lafayette, IN)
 - Rooted cuttings were planted on 19 August 2010 in 6.5 inch pots in Fafard Custom 1P media

Evaluation of *Piccolo 10 XC*

Materials and Methods

- Grown under non-inductive photoperiod with day extension light provided from 4 to 10 PM by HPS lights until 01 October 2010
- On 01 October 2010 began inductive short day treatments
- Temperature set point 75/67 °F D/N (12 h/12 h)
- On 02 September 2010 plants were pinched to 6 nodes
- First PGR applications made on 24 September 2010

Evaluation of **Piccolo 10 XC**

Growth Regulator Application Rates

Product	Formulation	Application Method	Rate
Control	NA	NA	NA
Piccolo	0.4%	Spray	12 ppm, 15 ppm
Piccolo 10 XC	4.0%	Spray	12 ppm, 15 ppm
Piccolo	0.4%	Drench	0.15 ppm, 0.20 ppm
Piccolo 10 XC	4.0%	Drench	0.15 ppm, 0.20 ppm

Evaluation of Piccolo 10 XC

(*Euphorbia pulcherima*) 'Early Prestige'

Spray Application

Control



Piccolo (0.4%)

12 ppm



Piccolo (0.4%)

15 ppm



Piccolo 10 XC (4.0%)

12 ppm



Piccolo 10 XC (4.0%)

15 ppm



Photo: 10 wks after first application (11/30/10)

Evaluation of Piccolo 10 XC

(*Euphorbia pulcherima*) 'Early Prestige'

Drench Application

Control



Piccolo (0.4%)

0.15 ppm



Piccolo (0.4%)

0.20 ppm



Piccolo 10 XC (4.0%)

0.15 ppm



Piccolo 10 XC (4.0%)

0.20 ppm



Photo: 10 wks after first application (11/30/10)

Evaluation of Piccolo 10 XC

(*Euphorbia pulcherima*) 'Enduring Red'

Spray Application

Control



Piccolo (0.4%)
12 ppm



Piccolo (0.4%)
15 ppm



Piccolo 10 XC (4.0%)
12 ppm



Piccolo 10 XC (4.0%)
15 ppm



Photo: 10 wks after first application (11/30/10)

Evaluation of Piccolo 10 XC

(*Euphorbia pulcherima*) 'Enduring Red'

Drench Application

Control



Piccolo (0.4%)
0.15 ppm



Piccolo (0.4%)
0.20 ppm



Piccolo 10 XC (4.0%)
0.15 ppm



Piccolo 10 XC (4.0%)
0.20 ppm



Photo: 10 wks after first application (11/30/10)

Evaluation of **Piccolo 10 XC**

(*Euphorbia pulcherima*) 'Ice Punch'

Spray Application

Control

Piccolo (0.4%)
12 ppm

Piccolo (0.4%)
15 ppm



Piccolo 10 XC (4.0%)
12 ppm

Piccolo 10 XC (4.0%)
15 ppm



Photo: 10 wks after first application (11/30/10)

Evaluation of Piccolo 10 XC

(*Euphorbia pulcherima*) 'Ice Punch'

Drench Application

Control



Piccolo (0.4%)
0.15 ppm



Piccolo (0.4%)
0.20 ppm



Piccolo 10 XC (4.0%)
0.15 ppm



Piccolo 10 XC (4.0%)
0.20 ppm



Photo: 10 wks after first application (11/30/10)

Evaluation of Piccolo 10 XC

Final Height (cm)

Treatments	'Early Prestige'	'Enduring Red'	'Ice Punch'
Control	33.9	34.4 b*	33.1
12 ppm spray (0.4%)	31.4	34.9 b	31.1
12 ppm spray (4.0%)	32.2	31.6 ab	32.2
15 ppm spray (0.4%)	32.0	32.8 ab	30.7
15 ppm spray (4.0%)	31.8	30.3 a	32.2
0.15 ppm drench (0.4%)	32.3	33.5 ab	30.5
0.15 ppm drench (4.0%)	31.7	32.6 ab	32.2
0.20 ppm drench (0.4%)	31.4	32.5 ab	32.0
0.20 ppm drench (4.0%)	31.6	31.8 ab	31.0

* Different letters indicate significantly different means, no letters indicate non-significance at 0.05.

Evaluation of Piccolo 10 XC

Days to flower

Treatments	'Early Prestige'	'Enduring Red'	'Ice Punch'
Control	58*	53	51
12 ppm spray (0.4%)	58	53	53
12 ppm spray (4.0%)	56	53	53
15 ppm spray (0.4%)	58	52	53
15 ppm spray (4.0%)	56	52	52
0.15 ppm drench (0.4%)	58	52	53
0.15 ppm drench (4.0%)	56	54	52
0.20 ppm drench (0.4%)	59	52	52
0.20 ppm drench (4.0%)	56	54	53

* No letters indicates non-significance at 0.05.