

FORTRESS[®]

Ornamental Herbicide



An American Vanguard Company

A GRANULAR HERBICIDE FOR PRE-EMERGENT CONTROL OF GRASSY AND BROADLEAF WEEDS IN FIELD AND CONTAINER ORNAMENTALS

Product Information Bulletin

477

GENERAL INFORMATION

Fortress is a combination herbicide containing two selective active ingredients that provide a broad spectrum of weed control with excellent plant tolerance on ornamentals, ground covers, and perennials..

Fortress contains 0.5% isoxaben and 0.25% dithiopyr on an engineered granule.

Common Name: Isoxaben and Dithiopyr

Class: Benzamide and Pyridine

GROUP	21 + 3	HERBICIDE
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Packaging: 50 lbs. bags

RESTRICTED ENTRY INTERVAL (REI) AND SIGNAL WORD

REI = **12 hours**

Signal Word = **CAUTION**

PERSONAL PROTECTIVE EQUIPMENT (PPE)

- Coveralls
- Waterproof gloves
- Shoes plus socks

MODE OF ACTION

Fortress provides weed control by combining two modes of action, inhibition of both cellulose biosynthesis (MOA 21) and microtubule assembly (MOA 3). These MOAs result in the inhibition of cell wall formation and mitotic processes in shoots and roots of emerging seedling weeds. The result is the prevention of weed seed emergence.

USE SITES

Fortress is registered for use in field and container ornamentals.

APPLICATION RATES

Apply **Fortress** herbicide at the rate of 150 lbs. per acre.

KEY WEEDS CONTROLLED

BROADLEAF WEEDS

aster, heath	parsley-piert
bittercress	pennywort
bittercress, little	pigweed, redroot
bittercress, hairy	Pineappleweed
brassbuttons, southern	plantain, bracted
carpetweed	plantain, broadleaf
carrot, wild	plantain, buckhorn
chamber-bitter	pokeweed, common
chickweed, mouseear	purslane, common
dandelion	rocket, London
eclipta	rockpurslane, redmaids
galinsoga, hairy	sida, prickly
geranium, Carolina	shepherdspurse
henbit	sorrell, red
knotweed, prostrate	speedwell, corn
ladysthumb	speedwell, thymeleaf
lespedeza, common	spurge, garden
lettuce, prickly	spurge, hyssop
mallow, common	spurge, prostrate
marestail	spurge, spotted
mayweed, chamomile	sweetclover, yellow
medic, black	tansymustard, green
morningglory, ivyleaf	woodsorrel, creeping
mustard	woodsorrel, yellow
oxalis, buttercup	

GRASSY WEEDS

barley	foxtail, green
barnyardgrass	foxtail, yellow
bluegrass, annual	goosegrass
brome	kikuyugrass
crabgrass, large	oats, wild
crabgrass, smooth	ryegrass
crabgrass, Southern	(annual & perennial)
crowfootgrass	sandbur
dallisgrass (seedling)	smutgrass

PARTIAL LIST OF CROPS TOLERANT TO FORTRESS

Abelia	Camellia	Heather	Miscanthus	Privets
Acacia	Chrysanthemum	Hosta	Mondo grass	Redbud
Agapanthus	Crape myrtle	Hollies	Oaks	Redwood
Ash	Coreopsis	Ice plant	Osteospermum	Rhododendron
Aster	Cotoneasters	Japanese maple	Palms	Rudbeckia
Balsam fir	Dogwoods	Junipers	Pennisetum	Sago palm
Barberry	English ivy	Leucothoe	Pieris	Serviceberry
Birch	Eunonymus	Liriope	Pines	Spruce
Bougainvillea	Ficus	Magnolias	Pittosporum	Smoke tree
Broom	Flowering dogwood	Mandevilla	Plumbago	Yarrow
Buxus	Gardenia			

See label for complete list of tolerant plants. For restrictions and plant names refer to the container label.

Treatment of ornamental species not listed on the label for **Fortress**

The species listed in the table aside have been tested under actual growing conditions and found tolerant at the recommended application rate. Users who wish to use **Fortress** on ornamental plant species not listed on the label may determine the suitability for use by treating a small number of such plants at the recommended rate. The user assumes responsibility for any plant damage or other liability resulting from use of **Fortress** on plant species not recommended on the label.

Fortress has shown excellent grassy and broadleaf weed control in a number university tests. It is particularly good on crabgrass, bittercress and spurge, among other hard to control weeds.

Shown in Fig.1 are 2017 test results from Dr. Andy Senesac, Cornell University. It shows the percent weed control at 30, 60 or 90 days after treatment respectively.

Injury on the following plant species has been observed following applications of **Fortress** and use is not recommended.

Ajuga spp. bugleweed or ajuga
Brassica spp. mustard
Euonymus alatus 'Compactus'
 dwarf burning bush
Euphorbia spp. spurge
Hydrangea spp. hydrangea
Iberis spp. candytuft
Juniperus horizontalis 'Prince of Wales'
 Prince of Wales juniper
Melaleuca quinquenervia cajuput tree
Rhododendron carolinianum Carolina rhododendron
Rhododendron catawbiense 'Roseum elegans'
 roseum elegans rhododendron

% Control

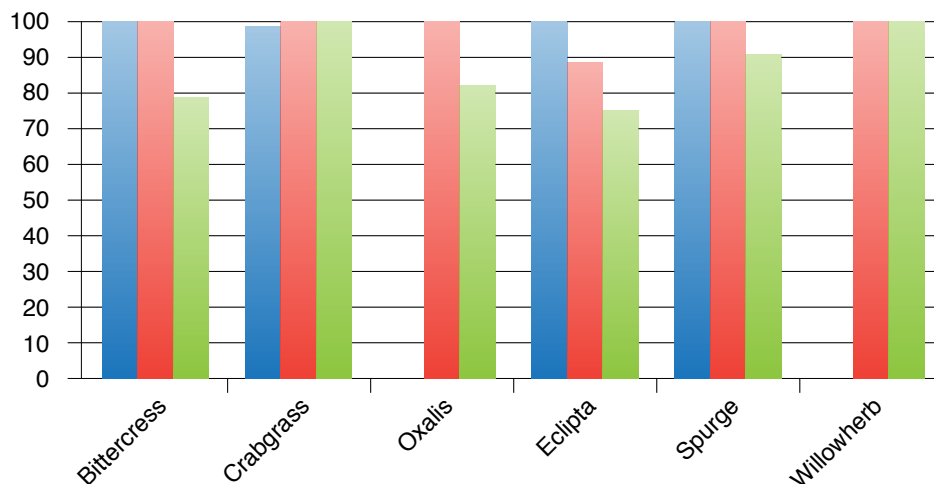


Fig. 1.

Dr. Senesac, Cornell University.
 (Days after treatment, DAT)

30 DAT = ■
 60 DAT = ■
 90 DAT = ■

Use of Fortress according to the labeling is subject to the use precautions and limitations imposed by the label affixed to the bag of Fortress. It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Always read the product label prior to product use.

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An American Vanguard Company

5151 McCrimmon Pkwy.
 Suite 275
 Morrisville NC 27560
 Technical Service: 800-356-4647
 ohp.com