

FORTRESS[®]

Ornamental Herbicide



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.

Fortress contains 0.5% isoxaben and 0.25% dithiopyr on a dust-free granule.

Common Name: Isoxaben and Dithiopyr

Class: Benzamide and Pyridine

| | | |
|-------|--------|-----------|
| GROUP | 21 + 3 | HERBICIDE |
|-------|--------|-----------|

Packaging: 50 lbs. bags

RESTRICTED ENTRY INTERVAL (REI) AND SIGNAL WORD

REI = **12 hours**

Signal Word = **CAUTION**

PERSONAL PROTECTIVE EQUIPMENT (PPE)

- Long-sleeved shirt and long pants
- Socks and shoes
- Waterproof gloves

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

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 | Eunoymus | Liriope | Pines | Spruce |
| Bougainvillea | Ficus | Magnolias | Pittosporum | Smoke tree |
| Broom | Flowering dogwood | Mandevilla | Plumbago | Yarrow |
| Buxus | Gardenia | | | |

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* cajeput tree
- Rhododendron carolinianum* Carolina rhododendron
- Rhododendron catawbiense* 'Roseum elegans' roseum elegans rhododendron

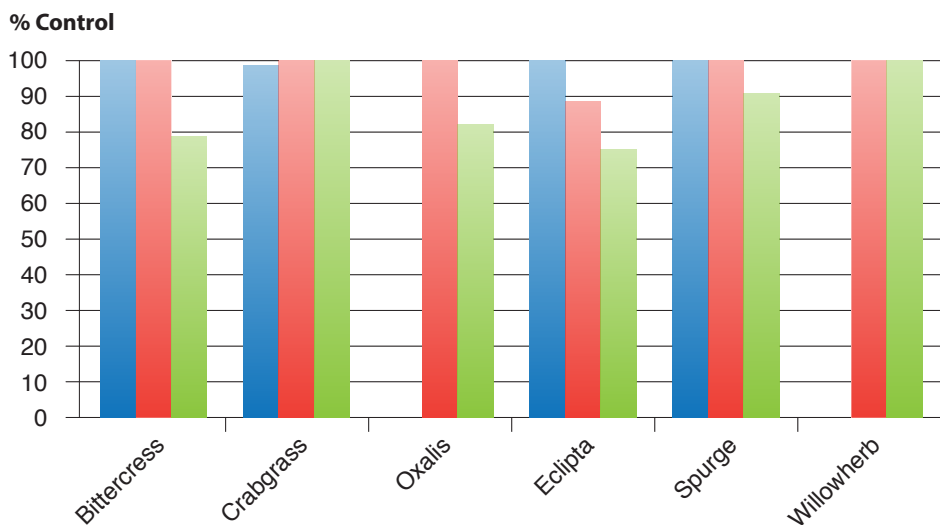


Fig. 1. Dr. Senesac, Cornell University. (Days after treatment, DAT)
 30 DAT = ■
 60 DAT = ■
 90 DAT = ■

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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