



Herbicides

Frontier Optima® 720 SC

Suspension Concentrate

Plant Protection and Inspection Services License. No.: 1986/טן/09

Herbicide to prevent emergence in peanuts, potatoes, sweet potatoes, beans, corn and onions

Package: 5 liter

Contains: 720g/l dimethenamid

Group: 15

General: Frontier Optima is a member of the chloroacetamide group (Group 15), acting to delay cell division in plants. Frontier Optima is a herbicide that prevents weed emergence, thus it must be applied to weed emergence. After activation by sprinkler irrigation, Frontier Optima will prevent the emergence of the following weeds: Wiregrass, Large crabgrass, Bells of Ireland, Nut grass, Cockspur grass, Sorghum, Bristly Foxtail, Aleppo sorghum (seeds), Common chickweed, Nettle-leaved goosefoot, Mini amaranth, cruciferous crops and Common purslane.

Applications for Peanuts

Crop	Dosage		
	Pre-Seeding	Pre-Emergence	Post-Emergence
Peanuts in light soil	-	210	130
Peanuts in medium-heavy soil	250 upon loosening	250	
Heavy soil (over 6% organic matter)	350 upon loosening		

*To control nut grass, apply at pre-seeding loosening.

Combinations

- Frontier Optima can be combined with Terbutrex SC in pre-emergence spraying only.

Applications for Potatoes, Corn, Beans and Onions

Crop	Dosage cc/dunam (pre-emergence)	Spray Volume (l/dunam)	PHI	Notes on Application Time
Potatoes	60	15-70	70	Spray after seeding and before crop emergence. For optimal effectiveness, spray up to 10 days after seeding.
Corn	50	20-35	54	Spray immediately after seeding
Beans	50	10-35	58	

(1) Where spraying is not possible before crop emergence (potato), use Frontier Optima up to 50% emergence. However, this will reduce treatment effectiveness and may cause a slight and transient impairment of potato plants.

Combinations:

- Potatoes – The preparation can be combined with 50 g/dunam Python SP, only for species approved for Python. Using this combination, do not spray after onset of potato emergence.
- Corn – Can be combined with 10g/dunam Heat or 80 cc/dunam Atranex.

Applications for Sweet Potatoes to control Nut Grass

Crop	Dosage cc/dunam (pre-emergence)	Spray Volume (l/dunam)	PHI	Notes on Application Time
Sweet Potatoes (1)	180	25-30	55	Spray at least 12 days after planting where most plants have set with spread young leaves

(1) In open areas only.

Combinations: No combinations.

The spray might cause a slight burn to sweet potato leaves spread on the spraying days. The new leaves will not be harmed. The preparation must be concealed by sprinkler irrigation up to two days from spraying at least 02m³/dunam. Do not apply more than

once per season. Approved in the Sharon region only. For optimal nutgrass control, spray as early as possible according to sweet potato development. Later spraying will reduce herbicide effectiveness.

Applications for Onions

Crop	Onion Age	Dosage (cc/dunam)	Spray Volume (l/dunam)	PHI	Remarks
Onion	1+ real leaf	60	25-30	29	Will prevent broad-leaf appearance
Onion	3+ real leaves	180		29	Will prevent broad-leaf appearance and impair sedge plants, including those that have already appeared.

Combinations: Do not combine with other products.

The product must be concealed in irrigation up to two days after spraying, at least 20m³/dunam.

For optimal sedge extermination, spray as early as possible according to the onion age. Later spraying will reduce extermination efficiency.