



**valdor**<sup>®</sup>  
**FLEX**

BRAND NEW

# *Residual herbicide*

FOR THE IRISH MARKET

New for 2019

# Setting the bar higher *through innovation*

Green spaces, amenity areas and transport infrastructure play an important role within our society. Such areas are increasingly under pressure from budget constraints, weed infestations and fewer chemical solutions that control them. However we only benefit if the management of these areas are conducted in a professional and safe way.

*Valdor® Flex is an innovative solution for the control of weeds in such areas.*

## Brand new *residual herbicide*

Valdor® Flex is a residual, pre-emergent, herbicide that controls a broad spectrum of weeds. When applied prior to germination, depending on the weed species to be controlled, Valdor® Flex keeps the soil weed free for up to 4 months. The product is a combination of 2 active ingredients, Iodosulfuron-methyl-sodium and Diflufenican (DFF), in convenient pack sizes. These active ingredients complement each other and improve the result compared to being applied individually.

Valdor® Flex can be applied to all permeable surfaces and railway ballast to provide effective weed control in a number of environments from industrial sites to public spaces. If weeds are present Valdor® Flex can be applied with glyphosate or a fatty acid to achieve control of existing vegetation.

## Key product benefits

- // A total, residual, pre-emergent herbicide
- // Combines new and trusted active ingredients Iodosulfuron and DFF
- // The 2 active ingredients have a complementary effect for greater weed control
- // Residual effect for up to 4 months
- // Great tool for resistance management
- // Convenient 500g (1ha) and 10g (200m<sup>2</sup>) pack sizes
- // Can be mixed with glyphosate or fatty acids for post-emergent control

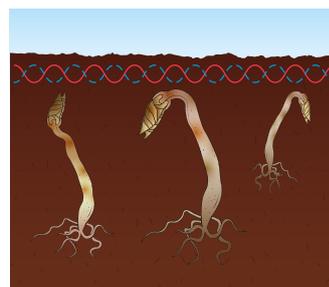
## How does *Valdor® Flex* work?

Valdor® Flex is a herbicide that controls a broad spectrum of weeds. When applied prior to germination, Valdor® Flex keeps the soil weed-free for up to 4 months by creating a dual barrier at the soil surface (see image to the right). The 2 active ingredients, Iodosulfuron and Diflufenican, complement each other and improve the result compared to applying the active ingredients individually.

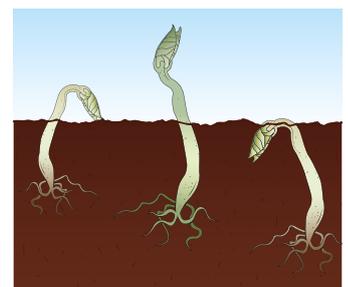
Utilising the latest generation of water dispersible granule (WG) formulation, Valdor® Flex quickly dissolves in water and stays stable in the tank for a minimum of 24 hours.

Valdor® Flex is a pre-emergent herbicide so should be mixed with glyphosate or a fatty acid if weeds are present.

### Dual barrier to prevent weed emergence



Treated



Untreated

— Iodosulfuron-Methyl    - - - Diflufenican

*Due to the unique combination of the 2 active ingredients, Valdor® Flex provides effective resistance management. It controls a wide spectrum of weed species and has a long lasting residual effect.*



## When to use *Valdor® Flex*

Valdor® Flex is best applied before the emergence of weeds. Valdor® Flex can be applied from March through to June, with a single application per season.

- // Apply before weed emergence
- // For post weed emergence, tank mix with glyphosate or fatty acid

### Application period for Valdor® Flex



■ Period for Valdor® Flex application   ■ Period when Valdor® Flex is not authorised for application



Apply Valdor® Flex

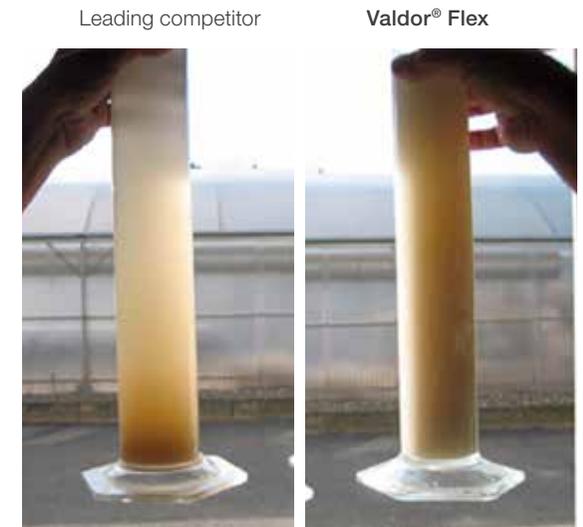
Apply Valdor® Flex and glyphosate or a fatty acid



## Formulation of *Valdor® Flex*

Valdor® Flex uses the latest generation of wettable granule (WG)

- // Very low dust formulation reducing operator exposure
- // Very stable as a suspension in the spray tank
- // The granules dissolve quickly and remain in suspension for a minimum of 24 hours
- // Product does not deposit on the bottom of the tank at time of mixing
- // Low odour
- // No stains on treated surfaces
- // Available in:
  - 500g bottles (1ha) for large areas and safe and easy tank filling
  - Convenient 10g sachets (200m<sup>2</sup>) ideal for knapsack use



Valdor® Flex is readily soluble in water and remains stable in the tank.



## // Dosage

Packaging	Dosage	Quantity of water	Surface
Folding box with 10 sachets	10g sachet*	6-10 litres	200m <sup>2</sup>
500g bottle	500g	300-500 litres	1ha

\* Knapsack example - 1 x 10g sachet in 6 - 10l of water will cover 200m<sup>2</sup>



# Product *efficacy*

## Key weeds controlled by Valdor® Flex

- // *Plantago lanceolata* (Ribwort Plantain)
- // *Solanum nigrum* (Black Nightshade)
- // *Veronica persica* (Persian Speedwell)
- // *Sonchus asper* (Spiny Sowthistle)
- // *Picris echioides* (Bristly Oxtongue)
- // *Trifolium repens* (White Clover)
- // *Epilobium parviflorum* (Hoary Willowherb)
- // *Poa annua* (Annual Meadow Grass)
- // *Daucus carota* (Wild Carrot)
- // *Geranium dissectum* (Cut-Leaved Crane's-bill)
- // *Taraxacum officinale* (Common Dandelion)
- // *Medicago lupulina* (Black Medic)

\* Supported by internal trials



## Preparing and applying *Valdor® Flex*

### Preparation of spray solution

Check and calibrate the sprayer, before starting treatment. To prevent a surplus of spray fluid, carefully measure the surface to be treated and accurately calculate the required amount of spray fluid.

### Proceed as follows:

- // Fill half of the spray tank with water
- // Add the required amount of Valdor® Flex to the spray tank
- // Agitate before use
- // Top-up water to required amount

## Resistance *management*

When using products with the same mode of action plants can become resistant to the active ingredient being used. Once a plant becomes resistant to an active ingredient it cannot be controlled by that active ingredient or any other that has the same mode of action.

*Valdor® Flex reduces this risk by:*

- // Having two active ingredients - Iodosulfuron and Diflufenican (DFF)
- // Having two modes of action to control the plant. This means they attack the plant in two different ways whilst giving good longevity
- // Can be used as part of a resistance management programme

**Resistance is not a problem,**  
*until it is a problem*

### Water permeable material such as gravel.



### *Application and stewardship tips*

- // Do not apply Valdor® Flex in groundwater protection areas
- // To minimise spray drift, the product must be applied using a nozzle capable of producing a coarse quality spray (e.g. Hypro Polijet AN0.6 or equivalent), or a track dedicated low drift application system.
- // This product must not be applied to any non-porous surface
- // Application permitted using:
  - Handheld sprayer
  - Track dedicated low drift system for rail
- // Only apply during suitable weather conditions

## Suggested *programme*

- 1 April -** Valdor® Flex with glyphosate. This controls vegetation that is present whilst giving preventative control for the following 4 months
- 2 September -** Apply glyphosate to control any further vegetation after Valdor® Flex has finished working

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## *Valdor® Flex testimonial*

**Alan Abel, Complete Weed Control South and Central Wales**

“Putting Valdor® Flex to the test on a heavily weeded gravel site at an international airport was a chance to find out if it would live up to expectations.

“Long-lasting residual control and ability to minimise resistance were two qualities we were looking for in the product, and we were very impressed by both aspects.

“Herbicide resistance is becoming a real issue in the amenity sector, so the fact the product brings new chemistry to our armoury is key. We also found it was particularly clean and easy to work with. There was no foaming in the tank, so the job was swiftly completed.

“In this trial we combined Valdor® Flex with glyphosate due to size of the weeds, but going forwards, we’re keen to use the glyphosate-free option it offers for early weed treatment.”

## Advantages of *Valdor® Flex*

- // Ideal for use by local authorities, county councils, highways maintenance, vegetation management contractors, landscapers and many others
- // Gives ideal glyphosate free option
- // Due to long residual activity, Valdor® Flex requires less frequent applications. Reducing the amount of herbicide applied to achieve a weed free environment
- // Reduced risk of weed resistance by different modes of action

## Key product benefits

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- // Residual effect for up to 4 months
- // Great tool for resistance management
- // Convenient 500g (1ha) and 10g (200m<sup>2</sup>) pack sizes
- // Can be mixed with glyphosate or fatty acids for post-emergent control



## Amenity Solutions

Backed by **Bayer**

Contact the Amenity Solutions team with your questions at [turfsolutions@bayer.com](mailto:turfsolutions@bayer.com) or on **00800 1214 9451**

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Valdor® Flex contains 360g/kg diflufenican and 10g/kg iodosulfuron-methyl-sodium (PCS05612) use plant protection products safely. Always read the label and product information before use. Pay attention to the risk indications and follow the safety precautions on the label.

Valdor® Flex is a trademark of Bayer.

