



Hammer
Rapid action total herbicide



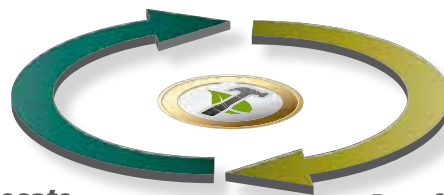
Prepare to be shocked . . .

Visible results in just **24 hours!**



Using an innovative combination of two active ingredients that target weeds in two different ways, Scotts Professional has produced a total herbicide that gives you the effective weed control you need, with visible results in just 24 hours!

Hammer is a total horticultural and industrial herbicide that works very fast on plants that have emerged – so fast, in fact, that it offers rapid knockdown of weeds and results you can see in just one day. Such stunning success has come from the careful formulation by Scotts' research and development team of a new active ingredient, pyraflufen-ethyl, with glyphosate. The pyraflufen-ethyl slows photosynthesis and produces the quick knockdown, while the glyphosate moves into plants' vascular systems to stop them growing.



Glyphosate

blocks production of essential acids needed for plant growth

Pyraflufen-ethyl

inhibits the enzymes needed to drive photosynthesis

Because these active ingredients work so well together, and are rainfast within six hours of application, fewer active ingredients need to be applied to the same area to get great results. And not only does Hammer work efficiently and fast, but it also has a pleasant odour that makes it easier to work with.

Hammer can be successfully used on a very broad range of weeds and is ideal for use as part of a resistance management programme, or where rapid action is needed to clear weeds.

Active ingredients and their effect

Hammer contains:

- **Pyraflufen-ethyl** (0.66 g/l) inhibits the enzyme production responsible for photosynthesis, and so provides a quick knockdown and visible destruction of the aerial part of the plant, with the first signs of activity seen within 24 hours.
- **Glyphosate** (240 g/l) moves into the vascular system of plants to block the production of acids essential for plant growth. It translocates throughout the treated plant from root to tip, ensuring that all of the plant is killed, including the root.

A unique suspo-emulsion formulation ensures efficient leaf coverage and rapid penetration into target plant leaves. And because it uses less glyphosate than conventional glyphosate-only products, it can be used as part of a resistance management programme.

Area of use

Hammer is approved for use as a horticultural and industrial herbicide. It is a foliar applied, trans-located herbicide for the control of broad leaved and grass weeds on natural surfaces not intended to bear vegetation and on permeable surfaces overlaying soil. It is also suited to weed control around ornamental shrubs and trees.

Application rates for various weeds

	Application rate (l/ha)	Q of active ingredient g/ha		Water volume (l/ha)	Weeds controlled
		Pyraflufen-ethyl	Glyphosate		
Annual	4.25	2.84	1020	200-500	Chickweed, Mayweed, Fat Hen, Common Field Speedwell, Shepherds Purse, Field Forget-me-not, Black Nightshade, Redshank, Black Bindweed, Red Dead-Nettle, Groundsel, Cleavers, Charlock.
Perennial	6.25	4.18	1500	200-500	Common Couch, Creeping Bent, Perennial Ryegrass, Creeping Thistle, Broad-leaved Dock, Perennial Nettle, Rosebay Willowherb.
Difficult perennials and brush weeds	8.75	5.86	2100	200-500	Bramble, Bracken,

Sprayer application

Hammer is approved for tractor-mounted boom, walkover and knapsack application. It is 'rainfast' within six hours of application.

Tractor-mounted boom

The use of suitable flat fan nozzles is recommended to give a medium to coarse spray quality, using the following parameters:

Operating speed	4-8 km/hr
Boom height	0.5 m
Sprayer pressure	2-4 bar
Use recommended flat fan nozzle	

For treating dense foliage, use a higher application volume (500l/ha) to improve penetration of the top layer of foliage.

Half fill the spray tank with clean water and start gentle agitation. Add the correct amount of Hammer and top up the tank to the required level whilst maintaining agitation.

Wash out spraying equipment thoroughly after use.





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Knapsack sprayer

Use a knapsack sprayer fitted with suitable nozzle to give a medium to coarse spray quality, and ensure the sprayer is correctly calibrated prior to application. For treating dense foliage, use the higher application water volume (5 litres per 100m²) to improve penetration of the top layer of foliage. Wash out spraying equipment thoroughly after use.

Weed type	Amount product (ml)	Amount water (litres)	Area treated (m ²)
Annual	42.5	2 to 5	100
Perennial	62.5	2 to 5	100
Difficult perennial & brush weeds	87.5	2 to 5	100

When to apply

Annual Weeds

- Treat when young and actively growing, from April to September
- Grasses should have at least 5cm of leaf
- Broad-leaved weeds should have at least two expanded true leaves.

Perennial Weeds

- Treat when fully emerged and actively growing (typically April to September)
- Grasses should be fully emerged with healthy green leaves
- Tough weeds, such as established Common Couch, are most susceptible when tillering with 3 to 6 leaves and about 15cm of new growth
- Broad-leaved weeds should be fully emerged with healthy green leaves, and many perennial broad-leaved weeds are most susceptible as they approach flowering.

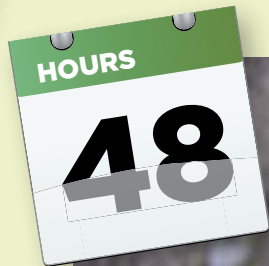
Pack Size

Hammer is available in a 5 litre pack, which treats between 5714m² and 11764m².





Visible effect 24 hours after application



Visible effect 48 hours after application





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- **Innovative combination of two active ingredients**
 - **Visible effects after just 24 hours**
 - **Effective on a broad range of weeds**
- **Less active ingredient needed per hectare**
 - **Ideal for resistance management**
- **'Rainfast' within six hours of application**



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Hammer® contains pyraflufen-ethyl and glyphosate.

USE PLANT PROTECTION PRODUCTS SAFELY. ALWAYS READ THE LABEL AND PRODUCT INFORMATION BEFORE USE.