

PERMATROL™

Permatrol is a minimum risk spray for Powdery Mildew from Soil Technologies Corp. This contact treatment is labeled for all crops, including grains, legumes, vegetables, fruits, flowers and ornamentals. The label includes open field, greenhouse, and shadehouse grown plants as well as nursery stock.

Permatrol is formulated with natural compounds originating from botanical sources.

Permatrol is manufactured in compliance with USA EPA Minimum Risk Pesticide Regulations and as such is exempt from registration under FIFRA per 40 CFR 152.25(f).

How Does Permatrol Work?

Permatrol kills on contact by smothering Powdery mildew mycelium and preventing spore formation and dispersal. It causes immediate lysis, or destruction of fungus cells. The product has certain more complex fatty acid components, which leave a natural residue on plant tissue. This residue continues to suppress disease spores long after application, extending retreatment intervals.



Permatrol Benefits:

Consistent Efficacy

- Permatrol is one of the few “curative” materials that effectively kills Powdery mildew mycelium.
- Permatrol provides broad spectrum control of Powdery mildew strains.

Minimum Worker Re-entry Interval

- Re-entry (greenhouse) two hours
- Re-entry (open field) zero hours
- Pre-Harvest Interval is zero days. Can be used on day of harvest

Ideal For IPM Program

- Soft on beneficials
- Does not cause secondary pest outbreaks

Improves Ornamental Plant Marketability

- Cleans and shines plant surfaces
- Foliage is more appealing to consumers



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PERMATROL™

TECHNICAL DATA

Purpose: Permatrol is a contact fungicide for use in an I.P.M. program for control of Powdery mildews. Permatrol is labeled for all crops and suitable for use in organic agriculture.

Application: Unlike preventative materials that are applied before disease infection, Permatrol needs to be applied only after Powdery mildew is observed. Make the first application when Powdery mildew infection is first observed. Make follow-up applications when Powdery mildew infections are again observed. Under heavy infestations, two back-to-back applications 7 days apart may be required for control. Permatrol may be used alone, rotated with other contact fungicides or tank-mixed with protectant fungicides.

Application Rates: A rate of 0.5% v/v spray solution is optimum for control of light to moderate infestations of powdery mildew. A higher concentration up to 1.0% v/v may be necessary for heavy infestations of Powdery mildew. Do not exceed a rate of 1.0% v/v spray solution in any application. See Table below for help with measurements (amounts are rounded up):

Gallons (liters) of Spray Solution	Amount of Permatrol for a 0.5% Solution	Amount of Permatrol for a 0.75% Solution	Amount of Permatrol for a 1.0% Solution
100 gal. (380 lt)	64 fl oz (1.9 lt)	96 fl oz (2.9 lt)	128 fl oz (3.8 lt)
50 gal. (190 lt)	32 fl oz (0.95 lt)	48 fl oz (1.42 lt)	64 fl oz (1.9 lt)
5 gal. (19 lt)	3.2 fl oz (95 mls.)	4.8 fl oz (142 mls)	6.4 fl oz (190 mls)
1 gal. (3.8 lt)	0.7 fl oz (19 mls)	1.0 fl oz (29 mls)	1.4 fl oz (38 mls)

Coverage: As with all contact materials, thorough spray coverage with Permatrol is very important for good disease control. The natural compounds in Permatrol cover Powdery mildew mycelia and spores and cause immediate lysis, or destruction of the fungus cells. Avoid excessive runoff of spray material.

Agitation: Once mixed, continuous agitation of the spray solution is required to assure proper deposit of Permatrol on the plant. If the spray solution sits for a lengthy period without agitation, be sure to agitate it well before starting to spray again.

