

Product Data

LIBERATOR 100

Penetrating Soil Conditioner



...setting performance
standards worldwide...

- ✓ **Reduces watering, fertilizing and weeding**
- ✓ **Encourages deeper, more complex root systems, while producing healthier top growth**
- ✓ **Makes water wetter and allows herbicides to penetrate soil and plant surfaces**
- ✓ **Nontoxic and completely water soluble**

APPLICATIONS

LIBERATOR 100 is a wetting agent and “spreader/sticker” that is used in conjunction with herbicides to improve their effectiveness. This formulation allows herbicides and fertilizers to penetrate faster and more completely into soil and plant surfaces.

LIBERATOR 100 is used by parks, motels, athletic fields, golf courses, schools, cemeteries, industrial plants and modern office complexes.

DIRECTIONS

Use LIBERATOR 100 in early spring to give plants and turf a head start for a healthier, more productive growing season.

Mix 1 gallon of LIBERATOR 100 concentrate with up to 1000 gallons of water/herbicide. One gallon of this mixture will cover 4,000 sq. ft. [excessively tight soils] to 6,000 sq. ft. [less compacted soils]. Apply in late afternoon or evening to allow maximum penetration.

LIBERATOR 100 should be applied once every 6 to 7 weeks during the growing season for the first year. Apply every 8 to 10 weeks the second year. For succeeding years, use once in the spring and again in late summer.

TECHNICAL DATA

Composition:	Nonionic surfactant
Type:	Wetting agent
pH:	8.0
Specific Gravity:	1.00
Toxicity:	Low
Flammability:	None
Equipment:	Can be applied through any spraying device, such as a Poly-V-Sprayer, Y-Proportioner, etc.



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C-12/PC-4380/0796

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- **Binds dust and small dirt particles**
- **Substantially reduces dust problems**
- **Makes water wetter and allows solution to deeply penetrate soil**
- **Biodegradable and completely water soluble**

APPLICATIONS

LIBERATOR 100 is a specially formulated surfactant solution which is used to reduce surface tension, meaning it makes water or causes water to spread out uniformly and penetrate deeply. LIBERATOR 100 will, as a result of the surface tension reduction, bind dust and small dirt particles onto larger dirt grains, firmly holding them in place for several days. This formulation is therefore successfully used to hold dust down on dirt roads, athletic fields, crop acreage, industrial construction sites or anywhere "dust" is a problem.

The application of LIBERATOR 100 is dependent on the project size. For small projects it can be applied through a Poly V Sprayer, moderate projects through a Proportionator Pump, and for large projects through a water tanker wagon which applies large volumes of solution to thoroughly penetrate and wet the dirt.

DIRECTIONS

Mix 10 gallons of LIBERATOR 100 concentrate to water depending upon the of dusting as follows:

For heavy dusting - 500 gallons of water

For moderate dusting - 750 gallons of water

For light dusting - 1,000 gallons of water

Other ratios may be found more suitable by the user under actual use conditions.

The frequency of application is determined by the degree of dusting. Various factors such as but not limited to rainfall, compacting, soil type, degree of operation and much more, will effect the application area. Apply every 3 to 4 days in the beginning. Adjust accordingly.

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APPROVALS



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