



TRANSFILM® ANTI-TRANSPIRANT

AN EMULSION OF POLYETHYLENES - POLYTERPENES

Principal Ingredients:

Polymeric terpenes.....	8.18%
Oxidized polyethylene.....	9.12%
Inerts.....	82.70%
TOTAL	100.00%



READ THE ENTIRE LABEL FIRST.

GENERAL INFORMATION

TRANSFILM® is an improved anti-transpirant that effectively reduces the water loss of plants. Coating the leaves with a thin film of TRANSFILM can provide a water-impermeable barrier that reduces the water loss from transpiration. TRANSFILM will coat the leaf surface with a clear, glossy film that remains durable and stable.

TRANSFILM is a mixture of polyethylenes and polyterpenes and forms an emulsion with water. TRANSFILM combines the features of a uniform film coverage on the leaves with the ease of use. Applications of TRANSFILM can complement sound water management practices and can improve the establishment and survival of plants exposed to extreme or adverse conditions.

Landscape contractors, retail garden centers, wholesalers, and municipalities have applied TRANSFILM to deciduous trees, conifers, container stock, and bedding plants. Anti-transpirants such as TRANSFILM are applied to leaf surfaces to relieve the plant from water stress during storage, shipping, and establishment. For example, bare-root and burlap transplants may suffer transplant shock because the water absorption rate of the roots cannot match the transpiration rate. Foliar applications of TRANSFILM before transplanting help the transplant when the root system cannot compensate for the amount of water loss by transpiration. So, the benefits of TRANSFILM are that transplant shock can be decreased, plant losses can be minimized, and the transplant season can be extended.

TRANSFILM may decrease the blue color of plants with blue-green leaves or needles such as Colorado Blue Spruce and Blue Rug Juniper. Once the blue color has been reduced, it will not return to leaves and needles which were treated. The color of leaves and needles which emerge after treatment will not be affected. Treated plants are not otherwise harmed.

MIXING INSTRUCTIONS AND CLEAN-UP

SPRAY PREPARATION:

Check the spray tank and the equipment for cleanliness before preparing the spray solution. TRANSFILM should be mixed with water. Do not combine pesticides with TRANSFILM except when the labeling of the pesticide permits a tank mixture.

Fill the spray tank with ½ to ¾ of the required amount of water and begin agitation. Add the required amount of TRANSFILM, and add the balance of water. Maintain agitation during mixing and spraying to ensure a uniform emulsion. Refer to Table 1 for quick-mix instructions.

Cleaning the spray equipment: Immediately clean the spray equipment with a soap solution according to the following instructions. Prepare a soap solution by mixing one (1) cup of detergent with two (2) gallons of water.

MIXING CHART

Table 1. Quick-mix instructions for preparing 1 to 100 gallons of spray solution at 2.5 to 10% concentrations (v/v) with water for foliar applications.

Spray Solutions, Gallons	Amount of TRANSFILM required for:		
	2.5%	5.0%	10.0%
1	3 fl. oz.	6 fl. oz.	12 fl. oz.
2.5	8 fl. oz.	16 fl. oz.	32 fl. oz.
5	1 pint	2 pints	4 pints
10	1 quart	2 quarts	4 quarts
15	0.38 gallon	0.75 gallon	1.5 gallons
20	0.50 gallon	1.0 gallon	2.0 gallons
50	1.25 gallons	2.5 gallons	5.0 gallons
100	2.5 gallons	5.0 gallons	10.0 gallons

Equal Measures: 1.0 gallon = 4 quarts = 8 pints = 128 fl. oz.

Equal Concentrations (v/v):
 2.5% = one (1) gallon of TRANSFILM mixed with 40 gallons of water.
 5.0% = one (1) gallon of TRANSFILM mixed with 20 gallons of water.
 10.0% = one (1) gallon of TRANSFILM mixed with 10 gallons of water.

For hand operated sprayers (backpack, knapsack, compression, or plunger sprayers): Rinse spray tank with water. Then, add soap solution and flush hoses, spray gun, nozzles, and strainers. Do not allow the spray solution of TRANSFILM to dry in the sprayer.

For engine driven pumps (piston, diaphragm, centrifugal, roller, and gear pumps): Rinse with water. Then add soap solution and flush the tank, hoses, lines, nozzles, strainers, and pumps. Do not allow the spray solution of TRANSFILM to dry in the sprayer.

To clean surfaces that were sprayed accidentally: Mix one (1) cup of detergent with two (2) gallons of water. Scrub the surface until clean and rinse with water.

USE INSTRUCTIONS

WINTER DESICCATION

TO REDUCE WINTER DESICCATION ON CONIFERS AND BROADLEAF EVERGREENS: Mix one (1) gallon of TRANSFILM with 10 to 20 gallons of water (Table 2). Or prepare a 5.0 to 10.0% (v/v) spray concentration according to the instructions in Table 1. Apply as a thorough cover spray in the late fall or early winter. Spray volumes will vary according to the plant size. Use adequate spray volumes to provide uniform coverage of all needles.

TRANSFILM will maintain the plant vigor throughout the winter.

CHRISTMAS TREES AND GREENERY

TO REDUCE THE DRYING OF CHRISTMAS TREES AND HOLIDAY GREENERY: TRANSFILM can reduce the drying of Christmas trees and holiday greenery and preserve the plant quality. Mix one (1) gallon of TRANSFILM with 40 gallons of water. Or, prepare a 2.5% (v/v) spray concentration according to the instructions in Table 1.

Apply as a thorough cover spray before shipping or during storage at the retailers. Spray volumes will vary according to the plant size. Use adequate spray volumes to provide uniform coverage of all needles and leaves.

TURFGRASS

TO REDUCE THE DESICCATION OF CUT AND ROLLED SOD: TRANSFILM can reduce the water loss of rolled sod during transit and can improve the establishment during adverse conditions. Apply as a broadcast treatment to the sod at least one (1) hour before cutting and rolling sod. Apply 2.5 gallons of TRANSFILM per acre. Spray volumes of 50 gallons per acre are recommended to ensure uniform coverage.

TO REDUCE THE WINTER AND SUMMER DESICCATION OF FINE TURFGRASS (INCLUDING GOLF GREENS): Apply as a broadcast treatment to the dormant turfgrass (inactive growth) in the late fall or

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