

PolyPavement™

The Natural Soil Pavement

TRAFFIC AREA

MUD AND DUST PREVENTION

SPRAY-ON APPLICATION INSTRUCTIONS

AT 150 SQUARE FEET PER GALLON COVERAGE

FOR

DATE: _____

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PRELIMINARY PROJECT DETERMINATIONS

READ THE APPLICATION INSTRUCTIONS THOROUGHLY BEFORE THE DAY OF THE JOB. INSTRUCT EACH EQUIPMENT OPERATOR AND LABORER CAREFULLY BEFORE STARTING PROJECT. PLAN AHEAD. CALL POLYPAVEMENT FOR TECHNICAL SUPPORT IF THERE ARE ANY QUESTIONS.

I. INSPECT THE TOOLS AND THE EQUIPMENT

II. MAKE PRELIMINARY PROJECT NOTATIONS:

1. SIZE OF AREA TO BE TREATED: _____ Square Feet
2. POLYPAVEMENT REQUIRED FOR PROJECT _____ Gallons
3. NUMBER OF SPRAY PASSES REQUIRED _____ 3 _____
4. POLYPAVEMENT REQUIRED FOR 1st PASS _____ Gallons
5. WATER REQUIRED FOR 1st PASS _____ Gallons at 20 TO 1 Dilution Ratio
6. POLYPAVEMENT REQUIRED FOR 2nd PASS _____ Gallons
7. WATER REQUIRED FOR 2nd PASS _____ Gallons at 12 TO 1 Dilution Ratio
8. POLYPAVEMENT REQUIRED FOR 3rd PASS _____ Gallons
9. WATER REQUIRED FOR 3rd PASS _____ Gallons at 12 TO 1 Dilution Ratio
10. CAPACITY OF DILUTION TANK _____ Gallons

NOTE: The soil should already be compact and it should have already been tested for suitability and for chemical contamination. If not, the test instructions for soil suitability and chemical contamination are below.

INSTRUCTIONS FOR SOIL SUITABILITY TESTS

TEST 1. Soil Cohesiveness: Squeeze a handful of moistened soil into a tight clump and then open the hand. If the soil clump fails to hold together when hand is opened, the soil might not be suitable for PolyPavement treatment.

TEST 2. Water Absorption (Soil Contamination): Sprinkle or pour a small amount of water on the dry soil surface and observe. If the water stands on the dry surface or fails to seep into the soil, the soil might not be suitable for PolyPavement treatment.

UNSUITABLE SOIL MIGHT HAVE TO BE REMOVED, REPLACED OR PRE-TREATED. CONTACT POLYPAVEMENT TECHNICAL SUPPORT FOR MORE INFORMATION.

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APPLICATION METHODS & INSTRUCTIONS

SPRAY-ON APPLICATION METHOD FOR:

TRAFFIC AREA - MUD AND DUST PREVENTION AT 150 SQUARE FEET PER GALLON

BASIC EQUIPMENT FOR POLYPAVEMENT SPRAY-ON APPLICATIONS

Storage Method, 5 Gallon Buckets, 55-Gallon Drums, or Bulk Storage Tank
Metering Tank or Measuring Container
Water Pump and Hoses with Fittings and Spray Nozzle
Emulsion Spreader Truck, Water Truck with Spray Bar, or other Type Spray Rig that sprays water evenly.
[OPTIONAL] Compactor
Tape Measure and Calculator

The primary piece of equipment for a spray-on application of PolyPavement Soil Solidifier is a sprayer that is capable of spraying water gently and evenly. The sprayer can be either a Computerized or non-Computerized Emulsion Spreader Truck; a Water Truck equipped with a Spray Bar; a large or small Tank with pump, hose and Hand Wand; a Back-Pack Sprayer; or a Garden Watering Can depending on the size of the Project at hand.

SPRAY-ON APPLICATION PRECAUTIONS

- 1. TEST THE SELECTED APPLICATION PROCESS** on a small-scale area (i.e. one square yard) before attempting a full-scale project.
- 2. DO NOT APPLY** PolyPavement Soil Solidifier during rainfall.
- 3. DO NOT APPLY** PolyPavement Soil Solidifier if rain is forecast in the next 24 hours. If rain is expected before newly applied PolyPavement Soil Solidifier surface has dried, cover the wet PolyPavement Soil Solidifier application with a tarp or plastic sheeting to prevent rain damage.
- 4. DO NOT ALLOW** PolyPavement Soil Solidifier to freeze in the container or before it has dried thoroughly.
- 5. DO NOT APPLY** PolyPavement Soil Solidifier at air or ground temperatures of 42 degrees Fahrenheit or less.
- 6. ALLOW FOR PROPER DRAINAGE** of a PolyPavement Soil Solidifier application. Slope, contour, shape or compact the soil so that the finished soil surface will be free of low spots and depressions where water will pond or puddle.
- 7. USE TWO OR MORE SUCCESSIVE SPRAY PASSES** to avoid run-off and/or to assure even coverage. The first spray pass must not be allowed to dry before the second spray pass is applied. If the first pass dries before the second is applied, the second spray pass' depth of penetration will be hindered.

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APPLICATION METHODS & INSTRUCTIONS

MUD & DUST PREVENTION (TRAFFIC AREAS)

COVERAGE: 150 square feet per gallon of PolyPavement (See Note 1)

SOIL CONDITION: *Properly graded, leveled and compacted surface with no ruts or depressions. Do not use the Dilution Ratios below on high clay soil or sand (See Note 4 for Clay Soil and See Note 5 for Sand).*

APPLICATION INSTRUCTIONS

PREPARATION: **WET THE SOIL SURFACE** evenly with water to prepare the soil surface if the soil is dry, dusty and resistant to water penetration, otherwise go to Step 1.

MINIMUM SPREAD RATE: 0.25 g/sy. (See Note 2)

DO NOT ALLOW THE SOIL SURFACE TO DRY - Proceed to Step 1.

1. PENETRATION SPRAY-PASS: SOAK THE SOIL evenly with 20 to 1 diluted PolyPavement Soil Solidifier. (See Notes 3, 4 & 5)

MINIMUM SPREAD RATE: 0.50 g/sy. (See Note 2)

DO NOT ALLOW THE SOIL SURFACE TO DRY. - Proceed to Step 2.

2. TOUGHENING SPRAY-PASS: WET THE SOIL SURFACE EVENLY with 12 to 1 diluted PolyPavement Soil Solidifier. **MINIMUM SPREAD RATE:** 0.25 g/sy.

ALLOW THE SOIL TO DRY COMPLETELY.

3. SEALING SPRAY-PASS: WET THE SOIL SURFACE EVENLY with 12 to 1 diluted PolyPavement Soil Solidifier. **MINIMUM SPREAD RATE:** 0.125 g/sy.

ALLOW THE SOIL SURFACE TO DRY. (If a Compactor is available, compacting at this point will toughen the surface but compaction is not required)

MAINTENANCE: **USE THE SOIL SURFACE** as intended. Repeat Step 1 whenever and wherever needed for periodic maintenance in specific locations.

*** NOTE:** Drying is an evaporation process. PolyPavement does not set like cement. It dries like glue. Drying occurs more quickly on a hot, sunny, windy day than on a cool, cloudy, windless day. After it dries, PolyPavement begins to cure. The chemical emulsifier (surfactant) in PolyPavement is biodegradable. While the emulsifier is present, PolyPavement has low resistance to water invasion. After the emulsifier is degraded PolyPavement resists water. The curing process is facilitated by sunlight and time. In bright sunlight, the surface cures in a day or so. However, the subsurface requires approximately 30 days or so to fully cure.

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APPLICATION METHODS & INSTRUCTIONS

SPRAY-ON APPLICATION NOTES FOR

MUD AND DUST PREVENTION @ 150 SF/G

TRAFFIC AREAS

APPLICATION NOTES:

NOTE 1: "COVERAGE" is the number of square feet of surface area that can be covered (treated) with one gallon of PolyPavement Soil Solidifier (i.e. 250 square feet per gallon). A Coverage of 250 sf/g means that one gallon of PolyPavement is sufficient to achieve the desired end results over an area of 250 square feet.

NOTE 2: "MINIMUM SPREAD RATE" (MSR). Spread Rate is stated in fractions of a gallon or gallons per square yard (i.e. "MSR: 0.25 g/sy"). Apply no less diluted PolyPavement Soil Solidifier than the stated "MINIMUM SPREAD RATE" on every square yard of surface area.

NOTE 3: "TREATMENT DEPTH" is exactly what the term implies. The treatment depth for a spray-on application cannot be specified or controlled. It depends on the porosity of the compact soil. For any given spray-on application, the treatment depth will be no greater than one-quarter inch.

NOTE 4: FOR HIGH CLAY SOILS, set the Penetration Spray-Pass dilution ratio at 12 to 1. Apply at a Minimum Spread Rate of 0.25 gallon of diluted PolyPavement per square yard of surface area.

NOTE 5: FOR CRUSHED ROCK WITH HIGH GRANULAR CONTENT OR SAND, set the Penetration Spray-Pass dilution ratio at 16 to 1. Apply at a Minimum Spread Rate of 0.375 gallon of diluted PolyPavement per square yard of surface area.