



# ENVIRO-GRIP™ EP#1

A Two Component, 100% Solids, Solvent Free, Epoxy-polyamine Primer

For Use on Concrete, Plywood and Other Heavy Traffic Areas – Indoor/Outdoor

## 1.01 DESCRIPTION

Enviro-Grip™ EP#1 is a two-component, low-odor, liquid-applied, epoxy-polyamine primer with unique penetrating characteristics. This primer is recommended for use on concrete, plywood and other heavy traffic areas. Use in indoor or outdoor applications. Be sure to use the right product grade that complies with VOC regulations as per federal, state, statutory bodies, county and city regulations/codes at the place of installation of product.

## 1.02 FEATURES

- Low odor
- 100% solids
- Solvent free
- Low viscosity
- Excellent adhesion

## 1.03 TYPICAL USES

- Concrete
- Plywood
- Glass Reinforced Plastics
- Polyurethane Elastomeric Surfaces

## 1.04 COLORS

Side-A: blue, Side-B: yellow

## 1.05 PACKAGING

3-gallon kit: One 3.5 gallon pail containing net 2 gallons (7.57 liters) of Side-A blue liquid and 1 gallon (3.78 liters) can of Side-B yellow liquid

15-gallon kit: Two 5 gallon (18.9 liters) pails of Side-A blue liquid, each containing 5 gallons and one 5 gallon pail of Side-B yellow liquid, containing 5 gallons (18.9 liters)

## 1.06 SURFACE PREPARATION

Refer to General and Safety Guidelines for complete information. Concrete surfaces require a medium sandpaper finish equal to or greater than an ICRI CSP #3. Surface preparation may be completed by shotblasting or the use of Poly-Tuff Profile and Etch cleaner. Peel and adhesion tests are recommended.

Install a 100-200 sqft (9.30-18.58 sqm) mock up of the system to be installed and approve for aesthetics, color, texture, actual coverage rates and functionality before proceeding.

## 1.07 MIXING

The volume mixing ratio is 2 parts Side-A blue liquid to 1 part Side-B yellow liquid. Enviro-Grip™ EP#1 Side-A and Side-B should be

## TECHNICAL DATA

(Based on draw down films).

Coverage Rate: 1 gallon/300sqft or 300 sqft/gallon (0.14 liters/m<sup>2</sup>)

Pot Life,

75°F (24°C) @ 50% RH

20-30 minutes

Dry Film Thickness per Coat

5±1 mils

127±25 microns

Specific Gravity,

Side-A

1.09±0.1

Side-B

1.07±0.1

Total Solids by Weight, ASTM D-2369

91%

Total Solids by Volume, ASTM D-2697

90%

Viscosity, at 75°F (24°C)

Side-A & B combined

600±50cps

Volatile Organic Compounds,

ASTM D-2369-81

0.75 lbs/gal (90 gm/liter)

thoroughly mixed individually prior to combining to ensure a homogeneous material. The combined components should be thoroughly mixed using a mechanical mixer at slow speed or for at least 5 minutes if mixed by hand.

## APPLICATION

### 2.01 APPLICATION BASICS

Enviro-Grip™ EP#1 should be applied at the rate of 1 gallon (mixture of Side-A & Side-B) in an even and puddle-free application per 300 sqft or 300 sqft/gallon (0.14 liters/m<sup>2</sup>). It can be applied using an airless sprayer, brush, or phenolic-resin-core roller. Coverage rates and cure times will vary depending on temperature,

relative humidity, surface roughness and porosity, aggregate selection and embedment, and application technique. Coverage rates provided are optimal and are not guaranteed.

- A. Allow Enviro-Grip™ EP#1 to become thumbprint-tack free before applying the coating. Heavy applications of primer for void filling will require longer dry times for a completely dry-to-touch film.
- B. Allow primer to be completely dry where primer is used to fill voids and pinholes in concrete. Recommended surface temperature should be greater than 50°F (10°C) and at least 5°F (3°C) above the dew point.
- C. Enviro-Grip™ EP#1 is very sensitive to heat and moisture. High temperatures and high humidity will significantly accelerate the cure time and pot life. Use caution in batch sizes and thickness of application.
- D. Low temperature and/or low humidity extend the cure time.

## 2.02 EQUIPMENT CLEANUP

Equipment should be cleaned with an environmentally safe solvent, as permitted under local regulations, immediately after use.

## 2.03 STORAGE

Enviro-Grip™ EP#1 has a shelf life of one (1) year from date of manufacture in original, factory-sealed containers when stored at 60-90°F (15-35°C).

## 2.04 LIMITATIONS

- Not UV stable.
- Surfaces must be dry, clean, and free of foreign matter.
- Containers that have been opened must be used as soon as possible.
- Enviro-Grip™ EP#1 is difficult to clean up after it has cured.
- Do not dilute Enviro-Grip™ EP#1.
- Mix no more material than can be used with 20 minutes.

**WARNING: This product contains epoxy resin and curatives.**

**ENVIRO-GRIP™ PRIMER SELECTION CHART** N/R = Not Recommended

FEATURES & USES	EP #1	EP #2	PUR #555	EP-WB	EP #121	EP 404FC
Low Odor	YES	NO	YES	YES	YES	YES
Solvent Free	YES	NO	YES	YES	YES	YES
Low Viscosity	YES	NO	YES	YES	YES	YES
Fast Curing	NO	NO	YES	YES	YES	YES
Meets SCAQMD	YES	(SC) YES	YES	YES	YES	YES
Pedestrian & Vehicular Traffic	YES	YES	YES	YES	YES	YES
Recoat Window (Hours)	12	16	6	12	4	12
<b>SUBSTRATE ADHESION</b>						
Concrete & Masonry	YES	YES	YES	YES	YES	YES
Asphaltic Concrete	TEST	N/R	N/R	TEST	TEST	TEST
Glass Reinforced Plastic	TEST	TEST	TEST	TEST	TEST	TEST
Plywood	YES	YES	N/R	N/R	YES	YES
Abraded Metals	YES	YES	YES	YES	YES	YES
Bonderized Metal	YES	YES	YES	YES	YES	YES

Please read all information in the General & Safety Guidelines, Technical Data Sheets, Guide Specifications and Safety Data Sheets (SDS) before applying material. PSI Products are for "Professional Use Only" and preferably applied by professionals who have prior experience with the PSI Products or have undergone training in application of PSI Products. Published technical data and instructions are subject to change without notice. Contact your local PSI representative or visit our website for current technical data, instructions, and project specific recommendations.

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