

# Poly-Seal Primer 500

A Single Component, Liquid Applied, Aromatic, Urethane-Polyurea Primer For Outdoor and Light-duty Traffic Areas

## 1.01 DESCRIPTION

Poly-Seal Primer 500 is a single component, liquid applied, aromatic, urethane-polyurea primer. This primer provides good inter-coat adhesion. Poly-Seal Primer 500 is designed for use in Southern California to be in compliance with SCAQMD air quality standards. This primer is recommended for outdoor and light-duty traffic areas. Please use the correct product grade that complies with VOC regulations as per federal, state, county and city regulations/codes at the place of installation of product.

## 1.02 FEATURES

- Fast Curing
- One Component
- For use in SCAQMD areas, use only Poly-Seal Primer 500

## 1.03 TYPICAL USES

- Pedestrian Decks Only
- Polyurethane Elastomeric Surfaces Only

## 1.04 COLOR

Amber

## 1.05 PACKAGING

1 gallon (3.78 liters) can  
 5 gallon (18.9 liters) pail  
 55-gallon drum, net fill 50 gallons (189 liters)  
 Contact PSI for availability of 55 gallon drums

## 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. 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

Before application, Poly-Seal Primer 500 must be mixed thoroughly.

## APPLICATION

### 2.01 APPLICATION BASICS

Poly-Seal Primer 500 should be applied at the rate of 1 gallon/300 sqft or 300 sqft/gallon (0.14 liters/sqm). 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.

### TECHNICAL DATA (Based on draw down films) Poly-Seal Primer 500

Theoretical Coverage Rate: 1 gallon/300 sqft or 300 sqft/gallon (0.14 liters/sqm)	
Pot Life 75°F (24°C) @ 50% RH	60-90 minutes dry film
Dry Film Thickness per Coat	4±1 mils (102 ± 25 microns)
Specific Gravity	1.07 ± 0.1
Viscosity, at 75°F (24°C) Side-A & B combined	300±50 cps
Total Solids by Weight, ASTM D-2369	78% ±2%
Total Solids by Volume, ASTM D-2697	76% ±2%
Volatile Organic Compounds ASTM D-2369-81	1.65 lbs/gal (198 gms/liter)

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Theoretical Coverage Rate: 1 gallon/300 sqft or 300 sqft/gallon (0.14 liters/sqm)	
Pot Life 75°F (24°C) @ 50% RH	60-90 minutes dry film
Dry Film Thickness per Coat	4±1 mils (102 ± 25 microns)
Specific Gravity	1.15 ± 0.1
Viscosity, at 75°F (24°C) Side-A & B combined	300±200 cps
Total Solids by Weight, ASTM D-2369	74 ±2%
Total Solids by Volume, ASTM D-2697	76 ±2%
Volatile Organic Compounds ASTM D-2369-81	0.75 lbs/gal (90 gms/liter)

Allow Poly-Seal Primer 500 to become thumbprint-tack free before applying the coating. Approximate tack free time is 1-2 hours at 75°F (24°C) and 50% relative humidity. Avoid puddling of primer at overlaps and low spots. Dry roll excess primer puddles and excess at overlaps while primer is wet before coating. Poly-Seal Primer 500 is should not be used for heavy textured, rough or pinholed concrete surfaces.

Recommended surface temperature should be greater than 50°F (10°C) and at least 5°F (3°C) above the dew point. Poly-Seal Primer 500 is very sensitive to heat and moisture. Higher temperatures and/or high humidity will significantly accelerate the cure time. 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 SHELF LIFE AND STORAGE**

Poly-Seal Primer 500 has a shelf life of 12 months from date of manufacture in original, factory-sealed containers when stored indoors at a temperature between 60-95°F (15-35°C).

**2.04 LIMITATIONS**

Poly-Seal Primer 500 should be coated within 2 hours after it has become tack free.

- Poly-Seal Primer 500 should not be used on pinholed concrete or where small cavities are present.
- Surfaces must be dry, clean, and free of foreign matter.
- Containers that have been opened must be used as soon as possible.
- Poly-Seal Primer 500 is difficult to clean up after it has cured.
- Do not dilute under any circumstance.
- Not UV stable.
- Mix no more material than can be used within 20 minutes.

Poly-Seal Primer 500 is considered a Dangerous Good. DOT regulations classify it as: UN 1263, PAINT, Class 3, PG III, FLAMMABLE LIQUID.

**WARNING: This product contains isocyanates and solvent.**

**Poly-Seal Primer 500**

**Selection Chart**

N/R = Not Recommended

FEATURES & USES	EP#1	EP #2	PUR #555	EP-WBs	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
SUBSTRATE ADHESION	EP#1	EP #2	PUR #555	EP-WB	EP #121	EP 404FC
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

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