

### Product Description:

Polyprime® H2O is a three component liquid-applied, water-based epoxy primer with low VOC, low odor, unique penetrating characteristics, and rust inhibiting properties.

### Features

- Low VOC
- Moisture Tolerant
- Fast Dry Time
- Low Odor

### Typical Uses

- Concrete
- Plywood

### Packaging

#### 1-Gallon Kit

Short filled can of Side-A (0.28 gal) and short filled gallon can of Side-B (0.35 gal). Add 0.35 gal water.

#### 3.5-Gallon Kit

1 gallon (3.78 liters) can of Side-A and 1 1/4 gallons (4.73 liters) can of Side-B. Add 1 1/4 gallons (4.73 liters) of water while mixing at site.

### Color

Side-A: Black, Side-B: White

### Coverage

The approximate coverage is 1 gallon/300 sqft (0.8 l/sqm). Coverage rate will depend on surface roughness and porosity.

### Surface Preparation

Concrete surface must be clean, sound and dry. Remove dust, laitance, grease, curing compounds, bond inhibiting impregnations, waxes, and any other contaminants. All projections, rough spots, etc. should be dressed off to achieve a level surface prior to the application. Concrete should be cleaned and prepared to achieve a laitance and contaminant free, open textured surface by shot blasting to a minimum of CSP 3-4 as per ICRI guidelines. Sweep and vacuum any remaining dirt and dust with a wet/dry vacuum. Removing residual dust will help ensure a tenacious bond between the primer and substrate. The compressive strength of the concrete substrate should be at least 3500 psi at 28 days and at least 250 psi in tension at the time of application of Polyprime® H2O primer.

### Technical Data (Based on Draw Down Film)

**Coverage Rate** 1 gal/300-450 sqft  
0.8-0.14 l/sqm

**Cure Time at 77°F (25°C) 50% R.H.** 3-4 Hours

**Pot Life at 75°F (24°C), 50% RH** Approx. 1 Hour.

**Flash Point** >200°F (93.3°C)

**Recoat Time at 77°F (25°C)** Up to 48 Hours

**Volatile Organic Compounds, ASTM D2369-81** < 5 gm/liters

### Mixing

3.5-gallon kit: It is important to remember that this coating has a limited pot life of approximately - 1 hour at 77°F (25°C) and 50% relative humidity. Do not use beyond this frame regardless of whether or not the product appears to still be usable. Review that all surface preparation is complete and application equipment is in good working order before starting the mixing sequence.

1. Pre-mix each component. Polyprime® H2O, Side-B is dark olive in color and may appear black in the container. Polyprime® H2O Side-A is light amber in color.
2. Add 1 gallon of Polyprime® H2O, Side-A to the 1. 1/4 gallons of Side-B in the short filled Side-B pail.
3. Mix thoroughly with a low speed (300-500 rpm) drill with Jiffy paddle for a minimum of 3 minutes. The mixture will appear light olive green color.
4. Slowly add 1 1/4 gallons of potable water to the mixture under agitation.
5. Mix for a minimum of 2 additional minutes until the mixture is fully dispersed. Fully dispersed material will appear yellow to white in color.

1-gallon kit: It is important to remember that this coating has a limited pot life of approximately - 1 hour at 77°F (25°C) and 50% relative humidity. Do not use beyond this frame regardless of whether or not the product appears to still be usable. Review that all surface preparation is complete and application equipment is in good working order before starting the mixing sequence.

1. Premix each component. Polyprime® H2O, Side-B is dark olive in color and may appear black in the container. Polyprime® H2O Side-A is light amber in color.
2. Add 0.28 gallons of Polyprime® H2O, Side-A to the 0.35 gallons of Side-B in the short filled Part-B pail.
3. Mix thoroughly with a low speed (300-500 rpm) drill with Jiffy paddle for a minimum of 3 minutes. The mixture will appear light olive green color.
4. Slowly add 0.35 gallons of potable water to fill the gallon can under agitation.
5. Mix for a minimum of 2 additional minutes until the mixture is fully dispersed. Fully dispersed material will appear yellow to white in color.

**NOTE:** The order that the Polyprime® H2O components are mixed is critical to the performance of this products. Failure to mix properly may result in an incomplete cure, despite a dry appearance.

## Application

Apply with flat squeegee or roller at the recommended rate. Allow for sufficient wetting of the slab and back-roll, utilizing a 1/4" or 3/8" nap roller to eliminate puddles on the surface of the slab. Minimize the overlap from batch to batch or bead-to-bead applications while achieving complete slab coverage, as these areas of overlap may not bond.

## Removal

Remove wet primer with MEK, xylene, or oxygenated solvents. Once cured, primer can only be removed by mechanical means. Strictly follow solvent manufacturer's warnings and instructions for use.

## Storage

Polyprime® H2O has a shelf life of 2 years from date of manufacture in original, factory-sealed containers when stored indoors at a temperature between 60-95°F (15-35°C).

## Over Painting

Polyprime® H2O has a recoat window of up to 48 hours. Do not apply a second coat of Polyprime® H2O, as it will not properly bond. There is no need for additional mechanical or chemical preparation of the Polyprime® H2O prior to the installation of the topcoat, if recoated within the recoat window, and the Polyprime® H2O has not been exposed to foot or vehicular traffic or similar. If the recoat window is missed (48 hours) the surface requires grinding or screening with 80-grit, followed

by a broom sweep and vacuum, prior to reapplication of Polyprime® H2O.

## Limitations

- Product must be protected from freezing. If frozen, discard.
- To avoid dew point conditions and prolonged cure during application, relative humidity must be no more than 85% and substrate temperature must be at least 5°F (3°C) above measured dew point temperatures.
- Minimum ambient and substrate temperature during application and curing of material is 41°F (5°C); maximum is 90°F (32°C). Frequent monitoring of ambient and substrate temperature should always be done when applying epoxy primers. Note that low temperatures will slow down the cure, and high temperatures will accelerate it.
- Do not apply on substrates with moisture greater than 4% by weight, measured by a Tramex CME or CMEEExpert type concrete moisture meter.
- Do not apply on substrate surfaces where moisture vapor transmission will occur during application and cure. This condition may be checked using ASTM D-4263 (Polyethylene Sheet method).
- Substrate must be dry prior to application. Do not apply to a frosted, wet or damp surface. Allow sufficient time for the substrate to dry after rain or inclement weather, as there is the potential for bonding problems.

## Warning

Polyprime® H2O Side-A Resin contains - **IRRITANT, SENSITIZER**. Contains epoxy resins. Eye irritant. May cause skin/respiratory irritation. Prolonged and/or repeated contact with skin may cause allergic reaction/sensitization. Deliberate concentration of vapors for purposes of inhalation is harmful and can be fatal.

Harmful if swallowed. Strictly follow all use, handling and storage instructions.

Polyprime® H2O Side-B Hardener contains **CORROSIVE, SENSITIZER, IRRITANT**. Contains amines (mixture). Contact with skin and eyes causes severe burns. Respiratory irritant. May cause eye/skin irritation. Possible skin sensitization/allergic reaction with prolonged or repeated exposure. Harmful if swallowed. Deliberate concentration of vapors for purposes of inhalation is harmful and can be fatal.

**Limited Warranty:** Please read all information in the General Guidelines, Technical Data Sheets, Guide Specifications and Safety Data Sheets (SDS) before applying material. These products are for professional use only and preferably applied by professionals who have prior experience with the Polycoat Products materials or have undergone training in application of Polycoat Products materials. Published technical data and instructions are subject to change without notice. Contact your local Polycoat Products representative or visit our website for current technical data, instructions, and project specific recommendations.

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