

# POLY PREP

## Ultra Polymers, Inc.

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### Product Description

**Poly Prep** is a 100% solids solvent-free hybrid epoxy coating intended for moisture mitigation on new and existing concrete. It is a two-part, VOC-free material designed for roller application in a single coat. No primers or topcoats are required. Only a CSP 1 finish achieved by grinding or other means is required. No surface moisture testing is required, and Poly Prep can be applied at RH100% levels.

Poly Prep creates a moisture barrier between concrete substrates and a variety of floor coverings such as epoxies, VCT, carpet or cementitious overlays. It features high moisture resistance characteristics and moisture mitigation properties,

Poly Prep features high adhesive properties, allowing for easier surface preparation and extended performance. It is most often used as a primer coat over concrete slab flooring in preparation for the installation of floor coverings but can be used as a stand-alone surface. It is compatible with most standard glues, adhesives, leveling materials and other standard flooring materials.

Poly Prep is useful for flooring, chemical containment, swimming pools, water-landscaping, and new and old construction.

### Performance Advantages

Self-leveling coating intended for application to cured concrete with a CSP profile as low as 1, achieved by mechanical grinding.

Will not shrink; resists curl

Self-leveling and easy to apply in a single coat.

Suitable for application to new concrete, cured concrete, previously coated surfaces, plaster, metal, fiberglass, areas of high moisture and humidity and areas that cannot be prepared by methods other than grinding or high-pressure water blasting.

Will bond to itself without a "window" for re-application. Wet-edge application is not required.

Colored coating allows easy visual determination of coverage areas.

Will work on both heavily abraded areas and smooth surfaces.

Can be mixed with aggregate to create mortar like repair compound.

Chemical resistant (contact Ultra Polymers for specific performance)

### Properties

*All data given below are based on the product as currently formulated. Tolerances are not noted.*

Appearance	off white liquid
Viscosity	@20C (68°F) generally 1500 cps. Varies with use of acetone; can be altered
Density	9.7lb (4.4kg) total
Total volatiles	0% by weight/ 0%by volume
Storage Temperature	Store indoors above 45°F
Pot life	approx. 30 minutes at 70°F

Application temperature	ambient -optimum not below 50°F Substrate – not below 65°F
Moisture	Surface RH ≤100%
Maximum coverage	100 - 116 ft square per single unit kit Minimum 8 mils per square inch
Permeance	<.1
Sheen	Gloss
LEED	4.2 compliant
UV	Not photochemically reactive

### Poly Prep Surface Preparation Requirements

*The goal of all surface preparation is to achieve a clean, dry and intact substrate prior to coating application.*

Remove loose materials, debris and all existing contaminants, residues and adhesives via mechanical means.

Grind surface. Profile ≥ CSP1 must be achieved by mechanical means.

Inconsistencies in CSP surface preparation are acceptable, provided CSP≥1 is achieved.

Static cracks may be filled with repair compounds or flooded/filled with Poly Prep, or Poly Prep mixed with Cab-o-sil or aerosil to create a mortar-like repair compound.

Power scrub surface with clean water (changing water every 1500 square feet)

Repair and address control and contraction joints as needed with cementitious based patch and repair products (silicone free) and address low or high spots

Surface must be free of visible moisture

Surface temperature >65F and ambient temperature >50F is ideal.

### Application

Identify Part A and Part B components compatible in product type and packaging amounts.

Empty complete contents of Part B into short-filled container of Part A. Mix via mechanical means with an industrial drill and mixer attachments, one minute. Do not overmix.

Transfer entire contents of combined Part A/Part B into a third container.

Add acetone as indicated for packaging size. Mix one minute. Do not overmix. Do not aerate.

Mixed material is ready for immediate use. Pot-life is 30 minutes @70F. Do not use material that is noticeably generating heat or becomes viscous. Do not add additional acetone to mixed material after initial blending.

Blended and mixed coating can be poured directly onto the project surface or into a tray. Apply evenly with a squeegee or roller, or any means that will ensure even coverage. Specialty rollers are not required.

Coverage rate should be 8-12 mils per 100ft<sup>2</sup>, yielding coverage of 100-150ft<sup>2</sup> coverage per single 1-gallon kit.

A minimum of 6 mils coverage on any point of the surface is necessary to protect against RH up to 95%.

Coating may be used to fill voids and hairline cracks of any thickness.

Waste from this product is not hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261

### Curing Schedule

@ 8.0 mils wet: @ 77°F/25°C 10 hours

No transfer: approx. 4 hours

To recoat: after 4 hours, no maximum

Cure time is temperature, humidity and mil coverage dependent.

