Ultracoat

Ultra Polymers, Inc.

200 Laurel Avenue
Gibsonia, PA 15044

Product Description

Ultracoat is a 100% solids solvent-free hybrid epoxy coating intended for industrial and commercial use on concrete slabs and structures for chemical protection, containment and wear resistance. It can be applied to new and existing concrete substrates.

Ultracoat can be used as a sealer and coating for direct use, or as a layer between concrete and leveling coats for the application of tiles, VCT, carpet or other overlays. It features high adhesion, wear resistance and creates a moisture barrier.

Performance Advantages

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

Suitable for application to green concrete

Will not shrink; resists curl

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

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 and textured anti-slip surfaces.

Properties

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

Appearance	off white liquid, or colors as selected
Viscosity	136 KU@20C (68ºF) varies with use of acetone; can be altered
Density	9.7lb/gal (4.4kg) total
Total volatiles	0% by weight/ 0%by volume
Storage Temperature	Store indoors above 45ºF
Pot life	approx. 30 minutes at 70ºF
Application temperature	ambient - not below 50ºF Substrate – not below 65ºF
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

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 Ultra Coat, or Ultra Coat 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

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.

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. Apply evenly with a squeegee or roller, ensuring, and back-roll application immediately upon completing the mixing process.

Coverage rate should be 8-12 mils per 100ft², yielding coverage of 100-150ft² coverage per single unit.

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.

Cure 12 hours depending on substrate and ambient temperatures

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 12 hours

No transfer: 4 hours

To recoat: after 4 hours, no maximum

Cure time is temperature, humidity and mil coverage dependent.