ConcretePlus™ CP815 Penetrating Primer

High performance epoxy coatings and repair systems for concrete and more.

DESCRIPTION

ConcretePlus™ CP815 Penetrating Primer is a zero-VOC, professional grade, two component, ultra-low viscosity waterborne epoxy.

TYPICAL USES

- Deep penetrating primer for existing concrete
- Green concrete primer
- Sealer to reduce water vapor transmission
- Polymer concrete liquids
- Dust-proofing concrete sealer
- Concrete curing compound for green concrete

COLOR

The Part A Resin is clear; the Part B Curing Agent is amber. When mixed the product is a milky color which dries to a transparent film.

SOLIDS BY VOLUME

As supplied, solids by volume: 78% solids
Volatile Organic Compounds: 0.0 pounds per gallon

APPLICATION THICKNESS

When used as a concrete primer, the maximum application thickness is 8 mils wet film thickness (WFT) per coat. This dries to 3 mils dry film thickness (DFT) when applied at 40% solids. Good painting practices suggest application of two coats for quality assurance.

COVERAGE

When applied at 40% solids, coverage is 200 square feet per gallon at 8 mils WFT, providing 3 mils DFT. This material is a penetrating primer and is absorbed rapidly into the concrete making WFT measurement inaccurate.

SURFACE PREPARATION

Before coating the concrete, it must be sound and free of dust, dirt, oil, grease, marine growth or deposits. This can generally be achieved by abrasive blasting, shot blasting, high pressure water cleaning, water jetting or a combination of methods. The best coating performance is achieved with good surface preparation.

MIX RATIO

Part A Resin:Part B Curing Agent:Water mix ratio is 1:1:2 by volume. Add 2 parts water by volume to dilute to 40% solids.

THINNING

Thin only with potable water; the suggested 40% solids use level is attained by adding water after mixing A & B.

AVAILABLE PACKAGES

Available in pints (1 quart kit) and one gallon pails (2 gallon kit). Kits are supplied with the proper amounts of A & B; these two components must be mixed together before use.

MIXING

Power mix each component separately, then measure out 1 part of Part A to 1 part of Part B by volume in a clean pail. Use a heavy-duty drill with a Jiffy or Hanson plunge mixer and mix at 500-700 rpm for three minutes. Dilute to 40% solids by adding 2 parts water and mix another minute. Scrape the sides and bottom while transferring to a clean pail and mix for one more minute before application. Properly mixed material will be a uniform color.

Example: Mix a 2-gallon kit at 40% solids. In a 5-gallon pail, add 1 gallon part A to 1 gallon part B and mix for three minutes. Dilute with 2 gallons water and mix another minute. Transfer to a clean pail and mix one more minute before use.

APPLICATION

Apply with a brush, epoxy-compatible roller, airless or air-assisted spray or other suitable method. For best results, apply primer when concrete temperature is stable or falling.

GREEN CONCRETE: Freshly applied Portland concrete surfaces should be lightly troweled and allowed to cure until it may be walked on without leaving a mark. CP815 diluted to 40% solids may then be applied by brush, roller or spray.

POLYMER CONCRETE: As a starting point, 60 pounds of high-early strength repair mortar may be cured with 2 gallons of 40% solids CP815. Reference the repair mortar's data sheet for cure times.

COHESANT MATERIALS
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ConcretePlus™ CP815 Penetrating Primer

POT LIFE

The pot life is 45 minutes for one gallon at 72°F. Longer working life is attained by mixing smaller batches and/or using cooler epoxy.

CURE TIME

Generally, the primer will be tack-free in 1 hour and dry-through in about 6 hours on 72°F concrete. This is a waterborne epoxy and humidity levels below 85% relative humidity and good air flow are required for the water to evaporate and the coating to cure. Thin film set time varies with substrate temperature and application thickness.

RECOAT TIME

This product may be recoated with itself as soon as it becomes tacky to the touch but does not transfer to the finger. Minimum topcoat time is when it is dry-through, about 6 hours on 72°F concrete. Maximum topcoat time is 72 hours on 72°F concrete; hotter concrete temperatures will shorten these windows. Clean the surface to remove any contamination before topcoating. If the recoat time is missed, abrade and clean the surface prior to coating.

SUBSTRATE TEMPERATURE

Minimum recommended substrate temperature: 40°F
Maximum recommended substrate temperature: 120°F

TEMPERATURE RESISTANCE

Maximum recommended dry temperature: 200°F. Wet temperature resistance depends on chemical concentration and exposure time.

CLEAN UP

Use soap and water to clean tools. Use acetone, MEK or xylene if only cleaning-up part A. Wash immediately and thoroughly with soap and water to clean skin. Refer to the Material Safety Data Sheet for additional information on health and safety.

SHELF LIFE AND STORAGE

Product shelf life is 1 year from purchase date in original unopened containers, stored in a sheltered area between 60°F and 80°F (15°C and 27°C).

SAFETY

Read the product's Material Safety Data Sheet (MSDS) for health and safety information before using. Strictly follow all notices on the MSDS and container label. If you do not fully understand the notices and procedures provided on the MSDS or if you cannot strictly comply with them, do not use this product. Actual safety measures are dependent on application methods and work environment. The MSDS is available online at www.cohesantmaterials.com.