

ConcretePlus™ CP865 Anti-skid binder

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

DESCRIPTION

ConcretePlus™ CP865 Anti-skid binder is a zero-VOC, toughened, professional grade, two component, medium viscosity epoxy binder with good chemical resistance. This high build coating is commonly filled with aggregate to produce abrasion, corrosion and impact resistant surfaces for parking decks, stair landings, driveways and other traffic bearing surfaces. It conforms to current ASTM C 881 and AASHTO M-235 specifications.

TYPICAL USES

- Driveway sealer
- Garage floors
- Parking deck sealer
- Concrete bridge top sealer/coating
- Broadcast aggregate binder

COLOR

The Part A Resin is clear; the Part B Curing Agent is amber. When cured the binder is clear.

SOLIDS BY VOLUME

As supplied, solids by volume: 100% solids
Volatile Organic Compounds: 0.0 pounds per gallon

APPLICATION THICKNESS

When applied at 100 mils as binder and dried aggregate is broadcast to rejection, system build will be about 1/4". This is a 100% solids epoxy with zero shrinkage. Wet film thickness and dry film thickness are the same (i.e. 100 mils WFT = 100 mils DFT).

COVERAGE

Coverage is 16 square feet per gallon when used as an anti-skid binder applied at 100 mils. When used as binder resin for skid-resistant surfacing, the broadcast aggregate should be applied to excess at about 2 pounds per square foot. A wet film thickness gauge may be used to determine actual application thickness.

MIX RATIO

Part A Resin:Part B Curing Agent mix ratio is 1:1 by volume. Broadcast 5 parts dry aggregate to 1 part mixed CP865.

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 a minimum of one minute. Scrape the sides and bottom while transferring to a clean pail and continue mixing for at least another minute before application. Properly mixed material will be a uniform color.



AVAILABLE PACKAGES

Available in one gallon pails (2 gallon kit) and five gallon pails (10 gallon kit). Kits are supplied with the proper amounts of A & B; these two components must be mixed together before use.

APPLICATION

Apply at 100 mils with a 3/16" notched squeegee, brush, epoxy-compatible roller or other suitable method. After the binder levels, evenly broadcast the dry aggregate, letting it sink into the binder. Continue slowly broadcasting to excess, removing extra after the binder has cured. For best results, apply when the concrete temperature is stable or falling.

THINNING

Do not thin with solvents. Mixed viscosity is approximately 3,000 cps at 72°F. If lower viscosity is needed, heat unmixed material by placing the containers in hot tap water until the desired flow properties are obtained. Unmixed material should not be heated above 150°F.

SURFACE PREPARATION

The best coating performance is achieved with good surface preparation. Before coating, the substrate must be prepared in a manner that provides a uniform, clean, contaminant free, sound, neutralized surface suitable for the specified coating.

Metal surfaces may require solvent cleaning to remove oil, grease and other soluble contaminants. Surfaces should be prepared to "white metal" for immersion service or "near white metal" for all other service. The resulting anchor profile should be 2-5 mils.

Concrete must be sound and free of dust, dirt, oil, grease, marine growth or deposits with a surface profile similar to 60-grit sandpaper. This can generally be achieved by abrasive blasting, shot blasting, high pressure water cleaning,

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water jetting or a combination of methods. Concrete floors exhibiting a moisture vapor emission rate greater than 3 lbs/1,000 ft²/24 hours (per ASTM F 1869) should be primed with CP815 waterborne primer before applying this product.

POT LIFE

The pot life is 20 minutes for 1 gallon at 72°F. Longer working life is attained by mixing smaller batches and/or using cooler epoxy.

CURE TIME

Generally, the coating will be tack-free in 7 hours on a 72°F substrate and dry-hard in 10 hours. 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. When applying multiple coats, do not allow more than 18 hours at 72°F substrate temperature to pass between coats, higher temperatures will shorten this window. Clean the surface to remove any contamination before recoating. If the recoat time is missed, abrade and clean the surface prior to coating.

SUBSTRATE TEMPERATURE

Minimum recommended substrate temperature: 50°F
Maximum recommended substrate temperature: 100°F

TEMPERATURE RESISTANCE

Maximum recommended dry temperature: 160°F. Wet temperature resistance depends on chemical concentration and exposure time.

CLEAN UP

Use acetone, MEK or xylene to clean tools. 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.

TYPICAL PROPERTIES of 14 day cured neat system⁽¹⁾

DESCRIPTION	METHOD	RESULT
Coefficient of Friction, dry ⁽²⁾	ASTM C 1028	1.3
Coefficient of Friction, wet ⁽²⁾	ASTM C 1028	0.94
Coefficient of Friction, dry ⁽³⁾	ASTM C 1028	0.97
Coefficient of Friction, wet ⁽³⁾	ASTM C 1028	0.79
Tensile Strength	ASTM D 638	2,950 psi
Tensile Ultimate Elongation	ASTM D 638	46%
Compressive Strength	ASTM D 695	11,900 psi
Compressive Modulus of Elasticity	ASTM D 695	50,000 psi
Flexural Strength	ASTM D 790	2,700 psi
Hardness, Shore D	ASTM D 2240	77
Adhesion, Steel (SSPC-SP 5 "white blast")	ASTM D 4541	>1,500 psi
Adhesion, Concrete	ASTM D 7234	Substrate Failure

(1) Typical properties are to be considered as representative of current production and should not be construed as specifications.

(2) Broadcast to rejection with #20 grit Fused Alumina aggregate.

(3) Broadcast to rejection with Graded #20 Arkansas River sand.

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