ConcretePlus™ CP875 Hi-Performance liquid floor

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

DESCRIPTION

ConcretePlus™ CP875 Hi-Performance liquid floor has four times the strength of concrete. This professional quality coating has outstanding wear resistance with a showroom quality finish. 100% epoxy (no water or solvents) means low to no odors and fumes for a safe application in areas with limited ventilation. This industrial grade material has extraordinary adhesion to concrete which eliminates hot tire pick up issues.

TYPICAL USES

- Garage, warehouse or basement floors
- Decorative flake flooring
- Anti-skid coating with the addition of aggregate
- Utility & mud rooms

COLOR

Semi-gloss gray is made with gray Part A and natural Part B.
Semi-gloss tan is made with tan Part A and natural Part B.

SOLIDS BY VOLUME

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

APPLICATION THICKNESS

A minimum of 6 mils is recommended to ensure hiding, depending on substrate type and profile. This is a 100% solids epoxy with zero shrinkage. Wet film thickness and dry film thickness are the same (i.e. 6 mils WFT = 6 mils DFT).

COVERAGE

Coverage is 250 square feet per gallon when applied at 6 mils as flooring. A typical one-car garage takes one gallon of coating; a two-car garage will require 2 gallons. Use a wet film thickness gauge to determine actual thickness.

MIX RATIO

Part A Resin:Part B Curing Agent mix ratio is 3:1 by volume.

MIXING

Mix full kits only. Power mix each component separately, then pour all of the Part B into the Part A container. Use a heavy-duty drill with a Jiffy or Hanson plunge mixer and mix at 500-700 rpm for three minutes. 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.

THINNING

Do not thin with solvents. 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.

AVAILABLE PACKAGES

Available in 1 gallon kits (3 quarts of A in a 1 gallon pail & 1 quart of B) and 4 gallon kits (3 gallons of A in a 5 gallon pail & 1 gallon of B). Kits are supplied with the proper amounts of A & B; these two components must be mixed together before use.

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, water or deposits with a surface profile similar to 100-grit sandpaper. This can generally be achieved by detergent cleaning, acid etching, abrasive blasting, shot blasting, high pressure water cleaning or a combination of methods. Concrete floors exhibiting a moisture vapor emission rate greater than 3 lbs/1,000 ft^2/24 hours (per ASTM F 1869) should be primed with CP815 waterborne primer before applying this product.

APPLICATION

Apply with a brush, epoxy-compatible roller, squeegee or other suitable method. For best results, apply when the concrete temperature is stable or falling.

POT LIFE

The pot life is 30 minutes for 1 gallon at 72°F. Longer

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working life is attained by mixing smaller batches and/or using cooler epoxy.

CURE TIME

Generally, the coating will be tack-free in 10 hours on a 72°F substrate and dry-hard in 15 hours. The coating is ready for light foot traffic after 24 hours cure at 72°F and vehicle traffic after 3 days. Thin film set takes longer with cooler substrate temperature.

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: 90°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(1)

DESCRIPTION	METHOD	RESULT
Tensile Strength	ASTM D 638	5,980 psi
Tensile Ultimate Elongation	ASTM D 638	4.8%
Compressive Strength	ASTM D 695	14,400 psi
Flexural Strength	ASTM D 790	8,690 psi
Hardness, Shore D	ASTM D 2240	85
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.