

ConcretePlus™ CP825 Flexible Sealant

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

DESCRIPTION

ConcretePlus™ CP825 Flexible Sealant is a zero-VOC, professional grade, two component, medium viscosity, toughened epoxy with moderate chemical resistance. This impact resistant material provides improved adhesion over traditional flexible systems.

TYPICAL USES

- Self leveling filler for cracks in concrete
- Construction and expansion joints sealant
- Joint sealer for use in freeze-thaw areas
- Add 2-3 parts fine sand to repair spalled concrete
- Thermal shock resistant floors in freezers
- Secondary containment, troughs and pipelines

COLOR

The Part A Resin is white; the Part B Curing Agent is black. When mixed the product is gray.

SOLIDS BY VOLUME

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

APPLICATION THICKNESS

When used as a joint sealant, sealant depth should be about half the width. Maximum recommended width is 2 inches with a sealant depth range of ½ to 1 inch. Use backer rod to control the depth of the sealant and to prevent bonding to the bottom of joint. Compress the backer rod about 25% when installing, for example: use 1 inch diameter rod in a ¾ inch wide joint.

When used as thermal shock resistant flooring, typical recommended thickness is 25-80 mils on metal and 60-100 mils on concrete. Good painting practices suggest application of two coats for quality assurance.

COVERAGE

When used as a joint sealant, one gallon will fill 231 cubic inches. Coverage is 40 square feet per gallon when applied at 40 mils as flooring. Actual surface coverage will depend on substrate porosity and roughness. A wet film thickness gauge may be used to determine application thickness.

MIX RATIO

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

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 pints (1 quart kit), 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.

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, 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 CP825.

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.

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APPLICATION

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

POT LIFE

The pot life is 35 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 coating will be tack-free in 10 hours on a 72°F substrate and dry-hard in 22 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 24 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: 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 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	2,400 psi
Tensile Ultimate Elongation	ASTM D 638	170%
Hardness, Shore D	ASTM D 2240	73
Adhesion, Steel (SSPC-SP 5 "white blast")	ASTM D 4541	2,500 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.

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