

SUPERIOR PATCH BINDER - FLEXIBILIZED, TWO COMPONENT, 100% SOLIDS EPOXY BINDER

DESCRIPTION: SUPERIOR PATCH BINDER is a two component low modulus, 100% solids epoxy adhesive system designed for use as a binder for patching and coating all concrete surfaces that are exposed to stresses of impact or thermal change. Being moisture insensitive, SUPERIOR PATCH BINDER may be used on dry or wet surfaces.

USES: Binder for patching mortars. Injection repairs. Binder for non-skid surfaces. Protective coating.

ADVANTAGES: Low compressive modulus - provides increased impact resistance and flexibility. Easy-to-use 1:1 by volume mix ratio. Moisture insensitive. 100% solids - conforms to VOC regulations. Conforms to ASTM C-881, Type III, Grade 1, Class B & C.

SURFACE PREPARATION: All surfaces to be bonded, coated or repaired should be dry for best results, however a damp, surface-dry condition is acceptable. All concrete to be repaired must be free of standing water. Smooth surfaces must be roughened by sand blasting or acid etched with 5% muriatic acid followed by thorough rinsing with clear water, or mechanical scarification before the epoxy adhesive is applied. The substrate must be clean and completely free of oil, grease, other coatings and any other contamination.

MIXING AND APPLICATION: Epoxy Mortar: The individual components should be mixed prior to combining them. Do not mix more material than can be applied in 40 minutes. Combine equal volumes of parts A and B in a suitable mixing container and mix with a low speed mixer until a uniform color is obtained. The sides and bottom of the mix container should be scraped frequently to ensure complete mixing. The Kol mixer is ideal for this operation. Use clean, dry, bagged silica sand. Usually 3 to 3.5 gallons of sand per gallon of mixed epoxy will yield the appropriate density for a trowelable system. The receiving surface should be primed with the neat epoxy mix prior to placing the mortar mix. Injection Applications: SUPERIOR PATCH BINDER may be injected into cracked concrete, using two component cartridges, or a two component positive displacement injection machine with the mix ratio set at 1:1 by volume. It may also be hand mixed and poured into large cracks for horizontal repairs. Protective Skid Resistant Coating: Mix components as described above for epoxy mortars and spread onto the surface with

squeegees and back roll with a medium nap roller to distribute the epoxy system at 10 mil thickness. Broadcast clean, dry silica sand onto the applied epoxy system to obtain the desired finish, or to excess if repeated applications are required. In the latter case, the initial application should be allowed to cure and the excess sand removed before the surface is recoated with the mixed epoxy system.

LIMITATIONS: Do NOT apply when temperature is below 40°F. Do NOT apply to latex modified mortar or concrete.

CLEAN UP: Clean tools and equipment immediately with a suitable solvent such as xylene or lacquer thinner.

PACKAGING: 2 gallon units, 10 gallon units, 100 gallon units

CAUTION: For professional use only. Epoxy systems can cause delayed dermatitis. Avoid prolonged contact with skin. See Material Safety Data Sheet for proper handling and required safety equipment.

Properties at 77° F	
Mix ratio by volume	1:1
Color	Clear Amber
Pot Life (100 Grams-neat)	35-45 Minutes
Viscosity	1,000-1,300 cps
Compressive Strength (ASTM D-695)	5,000-6,500 psi
Compressive Modulus (ASTM D-695)	100,000 psi
Bond Strength	2,000 psi – 14 day moist cure
Tensile Elongation (ASTM D-638)	35-40%
Tensile Strength (ASTM D-638)	2,000 – 2,500 psi
Shelf Life	1 Year