

Superior Liquid Binder – Low Temperature Application, Chemical Resistant, 100% Solids Epoxy Binder

DESCRIPTION: SUPERIOR LIQUID BINDER - LOW TEMP is a low viscosity, two component 100% solids, rapid setting, chemical resistant structural epoxy. SUPERIOR LIQUID BINDER - LOW TEMP is designed to be mixed with graded sands for resurfacing at low temperatures or for repairs and resurfacing where time is of the essence at higher temperatures. SUPERIOR LIQUID BINDER - LOW TEMP will cure to yield a hard, dense, abrasion resistant surface at 35 deg F. Above 60 deg F, areas may be opened to traffic in as little as 2 hours.

USES: Resurfacing refrigerated areas. Rapid set patching. Rapid set coating. Rapid set non-skid floor surface or coating.

ADVANTAGES: Superior bonding properties. Low viscosity. Cures down to 35°F. 100% solids. Easy-to-use 2:1 by volume mix ratio. Cures rapidly at temperatures above 60°F.

SURFACE PREPARATION: Concrete must be clean, sound, dry and free of all foreign materials such as oils, grease, paints, sealers, dust and laitance. This can be accomplished by washing with a commercial grade detergent sand blasting, water blasting, mechanical scarification and chemical methods such as acid washing. If washed, surface should be thoroughly rinsed and allowed to dry before the application begins.

MIXING AND APPLICATION: Mix thoroughly 2 parts by volume of part A and 1 part by volume of part B. Prime the surface to be treated with the neat epoxy. Prepare the mortar system by adding 3-3 ½ gallons of clean, dry sand to each gallon of epoxy mix. Preferred types of sand are: hard, high grade silica sands such as Ottawa Flintshot, Mission or their equivalents, Emery or other forms of Alumina, and Silicon Carbide. If a blend of sand is used, mix the sands together prior to adding the epoxy. Blend the epoxy and sand until the sand is thoroughly wetted. Screed the mortar out onto the previously primed area, rake it to distribute, then compact and trowel to finish. Blending may be accomplished by using a heavy duty, slow speed 1/2" electric drill with a paddle, a Kol mixer or a mortar pan and concrete hoe. Do not mix more material than can be applied in 10 minutes @ 70°F or 20 minutes @ 50°F.

LIMITATIONS: Do NOT apply when temperature is below 32°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: 3 gallon units, 15 gallon units, 150 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 | |
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| Mix Ratio by Volume | 2:1 |
| Colors | Clear, Red, Gray, other colors available upon special order |
| Viscosity | 300-500 cps |
| Pot Life (100 Grams) | 10-15 minutes |
| Coverage: Coating | 100-150 sq. ft. gallon |
| Coverage: Mortar | 37 ½ sq. ft. @ 1/8" when mixed 3 parts aggregate |
| Physical Properties – 1:3 mortar | |
| Compressive Strength (ASTM C-579) | 10,500 psi |
| Tensile Strength (ASTM C-307) | 1,640 psi |
| Flexural Strength (ASTM C-580) | 4,500 psi |
| Shore D Hardness (ASTM D-2240) | 85-90 D |
| Bond Strength (ACL Committee #403) | 100% Concrete Fail |
| Water Absorption (ASTM C-413) | <1% |
| Heat Deflection Temperature | 140°F |
| Thermal Coefficient of Expansion (ASTM D-696) | 2.2 x 10(to the fifth power) in./in./deg.F |
| Shelf Life | 1 Year |