

NEW 2 OLD - 221- HIGH MODULUS, MOISTURE INSENSITIVE, 100% SOLIDS EPOXY BONDING AGENT

DESCRIPTION: NEW 2 OLD - 221 is a two component, 100% solids, moisture insensitive, high modulus structural epoxy adhesive for bonding new concrete to old concrete and as a general purpose binder for patching and grouting.

USES: Positive bonding of new "plastic" concrete to old concrete or steel. Positive binding for epoxy mortars used in patching horizontal surfaces. Grout for dowel bars, rebars and anchor bolts in concrete for load bearing applications.

ADVANTAGES: Easy 2:1 mix ratio. Moisture insensitive. High strength. 100% solids, conforms to VOC regulations. Conforms to ASTM C-881, Class B&C, Types I, II, IV, & V. Conforms to Georgia D.O.T., Section 886, Type II.

SURFACE PREPARATION: Surface must be clean and free of any dust oil, grease, laitance, curing compounds or any other contaminants. This should be achieved by sand blasting, water blasting or some other mechanical means. New concrete surfaces may be acid etched with muriatic acid and rinsed thoroughly. The surface must be dry or damp, and must be free of standing water.

MIXING AND APPLICATION: Pre-mix each component before combining. Mix thoroughly 2 parts component A with 1 part component B by volume. Mix with spatula or low speed drill with a mixing paddle. Be sure to scrape the sides and bottom of the container during the mixing process. Do NOT mix more than may be used in 30 minutes. For bonding new concrete to old concrete, apply mixed material to surface by brush, roller or spray. Pour new concrete while epoxy is still tacky. If NEW 2 OLD - 221 loses its tackiness before concrete is poured, re-coat with fresh epoxy. Epoxy mortar is produced by adding up to three parts of clean, dry, bagged sand by volume. Prime the surface with neat NEW 2 OLD - 221 and apply mortar with a trowel. For grouting dowel bars, anchors, etc., clean all dust out of hole and grout with neat NEW 2 OLD - 221.

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: 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	
Mix Ratio by Volume	2:1
Color	Clear Amber
Pot Life (100 Grams)	30-40 Minutes
Viscosity	2,000 – 3,000 cps
Coverage (neat)	80 to 125 sq. ft./ gal depending on porosity
Coverage (3:1 Mortar)	.37 cubic feet per gallon of binder
Bond Strength (ASTM C-882)	2 day – 3,330 psi, 14 day – 3,600 psi
Compressive Strength (ASTM D-695)	>10,000 psi
Compressive Modulus (ASTM D – 695)	375,000 psi
Tensile Strength (ASTM D-638)	3,290 psi
Tensile Elongation (ASTM D-638)	2%
Water Absorption (ASTM D-570)	<1%
Georgia D.O.T., Section 886	Type II
Shelf Life	1 year