

CORE BOND 1221B

High Strength Epoxy Binder & Grout

DESCRIPTION AND USES

CORE BOND 1221B is a two-part insoluble pre-packed adhesive system which contains a special polymeric curing agent ensuring a great degree of physical strength, chemical and corrosion resistance. This unique type of epoxy compound is especially formulated for structural concrete application and bonding of hardened cement to freshly mixed concrete. When fully cured, this chemical substance of low to medium consistency results in a tough bond with least to medium consistency results in a tough bond with least possibilities for shrinkage and expansion. It is also excellent for anchor bolt setting, grouting, topping, sealing and patching of concrete pavement and other structures as a waterproofing membrane and all purpose adhesive.

PROPERTIES & CHARACTERISTICS

Mix Ratio	Three (3)part of Component A (resin) to two(2) parts of Component B (hardener)
Packing	Available in 3.2kg per set (Part A & B)
Pot Life at 25°C	30 to 40 minutes
Tack-Free Time	65 to 70 minutes
Initial Curing Time	60 to 120 minutes at 25°C
Final Curing Time	24 hours at 25°C
Shelf Life	Minimum of 2 years under normal condition
Shrinkage	Insignificant
Viscosity	4900cps
Compressive Yield Strength	12500psi (ASTM D695-69)
Tensile Strength	3820psi (ASTM D1822-68)
Bond Strength	3000psi (ASTM D1184-55)
Hardness	80 Shore D

PROCEDURE

Surface Preparation

All surfaces for bonding must be completely clean, dry and free from dirt and other loose contaminating materials which could prevent a solid epoxy bond. Concrete should be cleaned by wire brushing to achieve a solid and sound surface. Before application, blow away dust with compressed air. Wood or cured epoxy surfaces may require sanding or other mechanical abrasion. Metals should be sanded or sandblasted. Where mechanical cleaning is not possible, chemical cleaning may be used such as muriatic acid etching and detergent washing followed by water jetting.

NOTE: All statements and technical facts and recommendations made for the use of all products are based on tests which we believe to be reliable and correct. However, no guarantee of their accuracy can be made due to a variety of existing project site conditions and to the differences encountered in raw materials, manufacturing equipment and methods.

Mixing

Mix thoroughly by volume 3 parts of resin to 2 parts of hardener for 3 to 4 minutes. Any disparity from the recommended proportion will affect its quality. Scrape the bottoms, sides and corners of the container to ensure complete and full blending. Prepare only enough quantities that can be used within the pot life period. Do not delay application.

Bonding of Hardened Cement to Freshly-Mixed Concrete

Apply CORE BOND 1221B on concrete surface using a brush with stiff bristles. Spread uniformly at a rate of 50 to 75 square feet per gallon. Without any waiting time, pour freshly-mixed concrete on top of CORE BOND 1221B. If the bond coat reaches a soft, rubber-like state with no tack, an epoxy reapplication is needed before the concrete is placed. However, if CORE BOND 1221B has hardened, mechanical scarification is required prior to the application of the second coat.

Clean up

All tools and equipment must be cleaned using CORE BOND REDUCER immediately after use to remove excess epoxy and avoid the hardening of its residue.

CAUTION

This product can result in skin and eye irritation after frequent and continuous exposure. When handling, wear rubber or plastic gloves. Wash hands with soap and water. Never use strong solvents for rinsing. In case of eye contact, flush with water and immediately seek medical help. Avoid breathing in vapor and fumes. Use in well-ventilated areas. Keep out of reach of children.

LIMITATIONS

Do not expose epoxy to direct heat and sunlight. Before mixing the resin and the hardener, air and surface temperature must be checked. Higher temperature reduces the pot life and makes application difficult. Lower temperature will extend cure time and would inhibit the epoxy bond.



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