

KUT BOND TN

Epoxy Resin Based Old To New Concrete Bonder

BTA-09-0412



DESCRIPTION

KUT BOND TN is a specially formulated non – shrink, non-sag, solvent free epoxy resin based system blended with fine inert fillers. It is supplied as a two component material in pre weighed quantities ready for on site mixing and use.

USES

KUT BOND TN is primarily intended as a bonder for old concrete to new freshly laid as well as old concrete and cementitious repair products.

ADVANTAGES

- **Non sag:** Can be applied to vertical surfaces
- **Quality:** Factory quality controlled pre – weighed quantities which reduce site errors.
- **Adhesion:** Excellent adhesion for bonding old concrete to new concrete as well as old concrete in load bearing as well as non load bearing applications. also recommended for bonding and sealing segmental precast elements.
- **Waterproofing:** The cured interfacial surface is impermeable to water, moisture, chlorides etc. and thus provides water proofing barrier for the freshly laid concrete surface.

TYPICAL PROPERTIES

- **Pot Life:** 5 hrs. @ 25°C.
- **Open Time:** 3 to 8 hours depending on temperature and humidity.
- **Bond Strength:** As per **ASTM C – 882** is more than 10.5 N/mm² and exceeds tensile strength of concrete.
- **Full Cure:** 7 days
- **Minimum Application Temperature:** 5°C.

CHEMICAL RESISTANCE

The cured surface of **KUT BOND TN** is resistant to most aqueous systems, sewage, fresh water, sea water, mild alkalis, mineral oils, vegetable oils, fats, ammonia and formaldehyde.

INSTRUCTIONS FOR USE

All grease, oil, contamination, dust laitence and loose concrete must be removed by scabbling or light bush hammer. Metal surfaces should be fully degreased followed by grit blasting to BS – 4232 : Second Quality or SA2.5 (SIS 05 5900). All reinforced bars should be coated with a corrosion resistant primer at the interface level. All free – standing water should be removed and the surface should be dabbed with some absorbent material.

Mixing: The total base and hardener components should be thoroughly mixed in the base container.

Application: After mixing apply to the previously prepared substrate using a short haired stiff nylon brush, ensuring thorough wetting of surface. It is essential that the new concrete is laid whilst the coat of **KUT BOND TN** is still tacky i.e. generally about 3 to 4 hours depending on temperature and humidity conditions present during this operation.

PACKAGING & YIELD

KUT BOND TN is available in 3 kg. pack. Yield is 2 litres per pack.

COVERAGE

KUT BOND TN is recommended at a spread rate of 2.5 to 3.5 m²/kg.

PERFORMANCE STANDARDS

ASTM C 881 – Type II, V & VI.

Grade 3 – Class B, C, E & F.

Bond Strength in accordance with **ASTM C – 882.**



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PRECAUTIONS

Cleaning: Spillages should be absorbed with sand or earth etc. and disposed of in accordance with local regulations. Clean tools and equipment with water / solvents immediately after use.

Storage: Store in dry conditions upto 20°C. Shelf life is 12 months.

HEALTH & SAFETY

KUT BOND TN should not come in contact with skin and eyes or be swallowed. Avoid prolonged inhalation with vapours. Some people are sensitive to epoxy resins, therefore protective goggles and barrier creams should be used. Ensure adequate ventilation and if working in enclosed areas, suitable breathing apparatus must be used. If this material comes in contact with skin it must be removed before it gets dried by washing with soap and water. If contamination occurs with the above primer, wash well with plenty of clean water and seek medical advice. If swallowed seek medical attention immediately. Do not induce vomiting.

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