

T-BOND A

(ACRYLIC BONDING AGENT FOR CONCRETE REPAIRS.)

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T-BOND A is a pure Acrylic latex cement modifier and bonding agent for concrete, mortar, plaster, repairs, floor toppings, etc., designed to give improvements to the mechanical and waterproofing properties of sand/cement based screeds and underlayments.

USES

T-BOND A is used for improving and bonding floor toppings, plasters and mortars, repair of worn, damaged or spalled concrete, floor screeds and toppings and concrete repair systems. Ideal for use in outside applications subject to continual presence of water. Recommended primer for the **BondCrete** cementitious repair systems.

ADVANTAGES

- Ready to use from the container.
- Can also be used as a curing membrane for localized patch repairs.
- Provides excellent adhesion to concrete, masonry, plaster, cement fiber board and most surfaces.
- Greatly improves tensile, compressive and flexural properties allowing thin section application of concrete, mortar, floor toppings etc.
- Excellent bond achieved even several hours after application.
- Is not affected by water in exterior situations.
- Improves abrasion resistance.
- Chemical resistance is improved.

SURFACE PREPARATION

Substrates should be mechanically prepared by bush hammering, grit blasting, etc., to produce a clean, exposed aggregate finish, free from dust, oil, grease, paint, laitance etc., to provide a 'key' for the **T-BOND A**. The clean surface should be dampened with water until it is saturated dry prior to the application of the bonding primer. Failure to do this will result in rapid drying of the primer and the mortar becoming unworkable. All excess water must be removed prior to application.

Chemically Engineered Products

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MIXING

Mix and stir **T-BOND A** in the container thoroughly until a homogenous thick liquid is formed.

APPLICATION & CLEANING TOOLS

1. As a Bonding coat:

The substrate should be thoroughly saturated with clean water with any excess removed prior to the application of **T-BOND A**. Apply **T-BOND A** into the substrate, avoid ponding and remove any excess. The repair mortar or topping should be applied whilst the primer is still tacky.

2. As a curing compound:

Apply with spray, brush, roller or lambs wool applicator. Ordinary garden type sprayers with neoprene hoses are recommended for best results. Spray uniformly to form a continuous film.

3. As a Repair Mortar:

Pour the aggregate and sand into a stationary concrete mixer. Start the mixer and add the **T-BOND A**. Mix for approximately 2 minutes. Slowly add the OPC and continue mixing for a further 2 minutes. Check the consistency of the mix, and if required adjust to a semi-dry consistency with a small amount of fresh water. The right amount of water has been added when a small quantity of the mix sticks together firmly when squeezed in the hand.

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Priming

A coat of **T-BOND A** / OPC grouting slurry should be applied to the pre-dampened surface. The mix should have a thick, viscous consistency and is applied by medium stiff brush (visible brush marks indicate that the right consistency has been achieved). Systems to be bonded must be placed whilst the primer remains tacky. The priming coat must be worked into the surface by stiff brush/broom ensuring uniform wetting out of the substrate. If the primer is allowed to dry, apply a second coat of primer. (Do not re-dampen dried out primer).

Reinforcing steel priming

Apply one full coat of **T-PRIME ZR** to all exposed steel reinforcement and allow drying prior to continuing. If any doubt exist about having achieved an unbroken film, a second application should be made and allowed to dry prior to continuing.

Application of repair mortar:

Once mixing is complete, empty the mix into the primed sub floor and using a straight-edge wooden or aluminum screed bar, lay it even over this. For leveling and consolidating, tamp with the screed bar and then rub with a plastic float. A smooth finish is achieved by light trowelling with a straight-edged steel trowel.

Working Time

T-BOND A has a working time of approximately 25 minutes at 25 °C.

Curing

T-BOND A applications are cement based products and in common with all such materials, must be cured in accordance with good concrete practice. The use of wet hessian combined with polythene sheeting is recommended for a minimum 7 days to prevent rapid drying out, alternatively a curing coat with **T-BOND A** can be applied. The system should be allowed to cure for a minimum 7 days at 20 °C before subjecting to full service conditions.

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TYPICAL PROPERTIES

Appearance White milky liquid, Specific gravity 1.06.

Consumption/Dosage Rate

Typically 10 – 26% v/w on the OPC weight i.e. 5 – 13 liters of **T-BOND A** per 50kg of OPC.

COVERAGE

Primer coat 5 – 8 m² / liter

As curing agent 6 to 9 m² / liter

PACKING AND STORAGE

STORAGE

T-BOND A has a shelf life of 12 months minimum when unopened in original containers.

PACKING

Available in 5, 20 and 200 liter drums.

HEALTH AND SAFETY

T-BOND A is a non toxic but it is mildly alkaline. Gloves should be worn during application. Splashes to the skin or eyes should be removed with clean water. In the event of the prolonged irritation. Seek medical advice. For more details check the Material Safety Data Sheet.

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PRECAUTIONS

T-BOND A is a non-flammable. If splashed into the eyes irrigate with clean water and seek medical attention. If ingested, again seek medical attention. Because **T-BOND A** is slightly Alkaline, skin contact should be avoided. Gloves and protective clothing should be worn.

Cleaning: All equipment shall; be cleaned with clean water immediately after use. Mixes containing this product shall not be emptied into drainage systems.

Protection: All coated surfaces must be protected from rain and frost until fully hardened.

Whilst the information and / or specification given are to the best of our knowledge true and accurate, no warranty is given or implied in connection with any recommendations or suggestions made by us, our representatives, agents or distributors as the conditions of use and any labour involved are beyond our control.

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