

TM BOND™ AR

Acrylic emulsion based Waterproofing Coating.

TM BOND AR is a modified acrylic emulsion specially designed for use as a waterproofing coating & It can be used for internal & external applications. TM BOND AR is the recommended primer for the Thermax cementitious repair systems.

Uses

TM BOND AR is used as waterproofing coating for basement, terraces, roof, toilet.

Benefits

- **High adhesion** - Provides excellent bond to concrete, masonry, stone work, plaster and block board.
- **Increased strength** - Improves tensile and flexural properties of mortar. Allows thin section applications.
- **Versatile** - Compatible with all common hydraulic cements
- **Economical** - Economical to use
- **Easy Application**- Simply brush onto concrete as a primer. Single component, gauged as required.

Technical support

Thermax offers a technical support service to specifiers, and contractors, as well as on-site technical assistance in locations all over the country.

Properties

- Specific Gravity 1.02

Typical improvements in mechanical properties of a 1 : 3 sand/cement mortar using TM BOND AR

Mechanical properties	Control	TM BOND AR
Compressive strength (N/mm ²)	25	30
Flexural strength (N/mm ²) (B S 6319)	5	6
Pull off adhesion test (N/mm ²)	2.5	3.5
Slant shear bond test (N/mm ²)	7	8
Tensile strength (N/mm ²)	3	3.5

Instructions for use

Surface Preparation

The objective of the surface preparation is to achieve a clean sound surface with a good mechanical key. All substrates should be cleaned and free of dust, plaster, oil, paint, grease, corrosion deposits, and any other hazardous substances. Laitence should be removed by mechanical means. Oil or greasy deposits should be removed by suitable means. All surfaces so treated should be thoroughly washed with clean water. Smooth substrates must be mechanically roughened e.g. by scabbling, needle gun or grit/ sand blasting to provide an mechanical key.

Concrete repairs: Any reinforcing steel in the repair area should be exposed around its full circumference and cleaned to remove all loose scale and corrosion deposits and then primed with suitable Primer. The dust and debris on the cement surfaces shall be removed.

Priming

Immediately before priming, the concrete substrate should be thoroughly dampened with water and any excess being brushed off. Scrub TM BOND AR into the substrate. Avoid puddling of the emulsion. The repair mortar/topping should be applied while the primer is still tacky. However a satisfactory bond can be achieved upto 15 mins. after application at 30°C.

For TM BOND AR slurry coat mix 1 vol of TM BOND AR+ 1.5 Vol of Cement + 1.5 Vol of water. Apply mortar within 5 minutes of application of slurry coat.

Typical Mix designs to modify mortars :

OPC	50kg
Zone 2 sand	150 kg
TM BOND AR	10-12
Water	Add sufficient water to give required consistency

Note : Trials are recommended to optimise mix designs.

Additional Guidance

Prepare surfaces thoroughly as previously recommended Cut back edges to avoid feather edging. Prime all surfaces including edges, using TM BOND AR.

All applications shall be wet on wet. For best results TM BOND AR should be allowed to become tacky. If the bonding agent is allowed to dry for more than 15 minutes at 30° C initial 'grab' to the repair mortar will be reduced. Therefore, the use of temporary shuttering is recommended. Water content of the mortar should be kept to the minimum necessary. For consistent results, use of clean dry sand is recommended. Where the use of wet sand is unavoidable, the quantity of water to be added must be reduced.

Cure mortars using TM BOND AR to prevent rapid drying out.

Protect uncured mortar from frost and rain. Do not retemper mortar after initial set.

Minimum application temperature for TM BOND AR is 10°C, but the mortar should not be applied if the temperature is expected to fall.

For permanently immersed conditions consult Local Thermax office.

Limitations

As a bonding agent

TM BOND AR may exhibit less overlay time at higher temperature. In such cases overlay mortar shall not be applied when TM BOND AR is totally dry.

TM BOND AR when used as bonding agent cannot act as a barrier coat against ingress of chloride ions from the substrate.

Equipment Cleaning

Immediately after use, wash all tools and equipments with clean water.

Health and Safety Instruction

TM BOND AR is not toxic. However it should never be ingested and if it comes into contact with eyes, wash immediately with plenty of water and seek medical advice.

TM BOND AR is slightly alkaline. Skin contact should be avoided. Gloves and protective clothing should be worn.

Fire

TM BOND AR. is non flammable.

Storage

TM BOND AR has a shelf life of 6 months when stored at 30°C. TM BOND AR should be protected from frost.

Packing

TM BOND AR is supplied in 1, 5 and 20 litre plastic containers.

Coverage

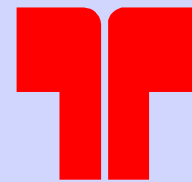
Approximately 6 -8m² / litre depending on substrate.

Other segments :

- Concrete Admixtures • Surface Treatments • Grouts & Anchors • Repair & Rehabilitation
- Protective Coatings •Industrial Flooring •Waterproofing • Sealants • Adhesives
- Cement Grinding Aids

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