

# KUT BOND PVA

## Bonding Agent And Cement Mortar Improver

BTA-06-1110



### DESCRIPTION

**KUT BOND PVA** is a modified polyvinyl acetate emulsion formulated specially for use as a bonding aid with gauging water for plaster and cementitious mortars not exposed to dampness or water. It is white, non-toxic, non-inflammable liquid of medium viscosity which dries to a transparent film.

### USES

Used for improving and bonding of floor topping, cement renderings and mortars, repair of damaged and spalled concrete for dry exposure conditions. It is used as tile adhesive when mixed with cement and blended sands.

It is recommended as a multi purpose adhesive, a plaster bonding agent, a primer for overcoating bitumen with oil based paints, for dust proofing floor screeds and friable concrete flooring.

### ADVANTAGES

- **Versatile:** Applications relevant to most building trades.
- **Universal Bonding Agent:** Bonds most common construction materials like Asbestos, Bricks, Carpet, Concrete, cork, Earthenware, Glass, Laminated Plastic, Leather, Linoleum, Plasterboard, Polystyrene, Renders, Roofing-Felt, Stone, Textiles, Tiles, Wood, etc.,
- Reduces Hacking and Keying, and will provide an Adhesive or Mechanical Key to receive Plaster or Render Coats of Gypsum, Lightweight Gypsum, or Anhydrous Plasters, Plastering onto Tiles.

### SURFACE PREPARATION

All substrates should be cleaned and free of dust, plaster, oil, paint, grease, corrosion deposit and any other deleterious substances, Excess laitance should be removed by mechanical means. Best results are obtained when smooth substrates are mechanically roughened or grit blasted or needle scabbled to provide adequate key for installation of PVA Mortar Improver or cementitious mixes.

### APPLICATION

**Sealing Porous Surfaces:** Porous surfaces should be sealed with a solution of 1 part **KUT BOND PVA** to 15 parts clean water. Bricks, foam, slag and other lightweight building blocks are exceptionally absorbent and may require wetting down before sealing.

As a general adhesive : After surface preparation, apply a thin film of neat **KUT BOND PVA** over both faces and allow to become tacky (20 to 30 minutes). Bring surfaces firmly together, position as required, wipe off any excess and allow to set for 24 hours. Do not clamp tightly as KUT BOND PVA may be squeezed out.

**N.B.:** **KUT BOND PVA** will not bond polythene PVC or rubber.

**As a plaster bonding agent:** For Gypsum, Lightweight Gypsum and Anhydrous Plasters seal as required and prime with a solution of 1 part **KUT BOND PVA** to 1 part water and allow to become tacky. Then plaster straight on to the tacky **KUT BOND PVA** in the normal way. For heavier rendering and cementitious toppings seal and prime as above and then prepare a key coat by mixing 1 part ordinary Portland cement, 1 part clean washed sharp sand, gauged to a stiff consistency with 1 part **KUT BOND PVA** to 3 parts clean water. Apply this to the tacky priming coat to an average thickness of 6mm(1/4 inch) and stipple with a stiff brush, or otherwise roughen surface to provide a good mechanical key. Allow to harden and dry thoroughly. Test for adhesion before applying renders.

**For repairs to concrete:** Immediately before priming with **KUT BOND PVA** the concrete substrate should be thoroughly dampened with water with any excess being brushed off.

All surfaces must be primed by thoroughly scrubbing in slurry coat of 1 vol. of **KUT BOND PVA**: 1 volume water to 3 volumes fresh cement. In order to obtain smooth consistency the cement should be blended slowly into the liquids. Stir frequently during use to offset settlement. Avoid "pudding" off the slurry coat. The topping must be applied



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in to the wet slurry. Prepare and seal surface as required, apply priming coat of 1 part **KUT BOND PVA** to 1 part water and allow to become tacky, Using the same sand or fine aggregate as in the concrete to be repaired, prepare a stiff cement/sand mix in the proportions 1:2 (or leaner) gauged with 1 part KUT BOND PVA to 3 parts clean water. Compact firmly and level out with minimum trowelling.

**As a bonding agent for ceramic, concrete, quarry, clay and terrazzo tiles:** Seal with solution of 1 part **KUT BOND PVA** to 5 part water. Brush well into the surface and allow to dry. Before bedding tiles in sand and cement, give the floor and base of tiles a further coat of 3 parts **KUT BOND PVA** to 1 part water. Whilst this is still wet or tacky apply sand and cement bedding to base and bed the tiles.

Always prepare surfaces thoroughly. Toe-in all edges wherever possible to avoid feather edging. All surfaces including edges must be primed. All application should be wet on wet, the primer must not allowed to dry. The water content should be kept to the minimum necessary. In order to prevent rapid drying, mortars should be properly cured with a curing compound.

Minimum application temperature is 5°C.

Do not retemper mortar or primer after initial set.

## LIMITATIONS

**KUT BOND PVA** should not be used when it will be in continuous contact with water. **KUT BOND PVA** sets by evaporation and should therefore be protected from moisture during the setting period. Do not use in wet conditions. Once placed **KUT BOND PVA** mortars should not be disturbed. If uncured **KUT BOND PVA** mortar surfaces are exposed to exceptionally severe drying conditions such as draught, strong winds, excessive sunshine, close proximity to heat sources etc; the surface may be lightly dampened or protected by covering with damp sacking, polythene sheeting etc.

## PACKAGING

**KUT BOND PVA** is available in 4, 20 and 200 kg containers.

## COVERAGE

### As a primer/adhesive

Neat	: 1 litre per 6-12 square metres
Diluted 1 :1	: 1 litre per 16-24 square metres
Diluted 1:3	: 1 litre per 24-40 square metres

The above figures will vary according to the degree of porosity and texture of the surface to which **KUT BOND PVA** is applied.

### As an admixture :

**KUT BOND PVA** is added at the rate of 20 to 30 litres per 100 kg of cement used i.e. approx. 100 to 150 litres per cu. metre of mortar.

## PRECAUTION

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

**Storage:** Shelf life 12 months when stored in dry conditions at moderate temperature and humidity. Protect the Product from frost.

## PERFORMANCE STANDARDS

**BS 5270.**

## HEALTH AND SAFETY

**KUT BOND PVA** is 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.

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