

# KUT SBR NO.1

## Highly Concentrated Polymer Emulsion

BTA-05-1110



### DESCRIPTION

**KUT SBR NO.1** is a highly concentrated styrene butadiene polymer emulsion modified with a blend of special auxiliary chemicals. **KUT SBR NO.1** can be used for indoor as well as outdoor applications as the system is resistant to hydrolysis.

### USES

- It is used as an integral adhesive and admixture to produce at the job site polymer modified cementitious mixes.
- It is used in preparing thick tile bedding mortar.
- It is recommended for use in bonding polystyrene panels with cementitious mortars.
- It is used for general repair of damaged and spalled concrete. It also improves the qualities of the flooring screeds and increases the waterproofing and chemical resistance of cementitious mixes used as renders.
- It is used as primer/sealer for cementitious repair products and cementitious floorings.

### ADVANTAGES

- A highly concentrated single component liquid polymer.
- Can be used to produce waterproof thick mortar tile bedding for swimming pools.
- As an integral admixture used with cement/sand and aggregates. It will produce a wide range of special high quality mortars or floorings.
- Mixed with sand/cement, it will produce highly adhesive mortar for bonding extruded polystyrene or insulation panels to concrete.
- Economical to use since it can be diluted with clean water.

### TYPICAL PROPERTIES

- **Mechanical characteristics:** Typical improvements in mechanical properties of a 3:1 sand/cement mortar using **KUT SBR NO.1** at 15% on cement level.

		Control	KUT POLYFIX SBR
Compressive Strength (N/mm <sup>2</sup> )	Dry	22.5	24.7
	Wet	25.3	35.2
Tensile Strength (N/mm <sup>2</sup> )	Dry	1.3	2.8
	Wet	2.4	3.5
Flexural Strength	Dry	3.9	4.8
	Wet	6.8	7.1
Drying Shrinkage (%)		0.05	0.02
Adhesion to Concrete - Slant Shear Bond (N/mm <sup>2</sup> )		9.1	10.2

- **Chemical resistance:** Cement based materials have limited chemical resistance. The addition of **KUT SBR NO.1** to cement mortars reduces permeability and therefore helps reduce the rate of attack by aggressive chemicals.
- **Water Vapour Permeability:** Less than 4gm/m/24hrs, through a 10mm thick test piece.
- **Coefficient of Thermal Expansion:**
  - 20°C to +20°C : 12.8 x 10<sup>-6</sup>
  - +20°C to +60°C : 12.9 x 10<sup>-6</sup>
- **Resistance to Water under Pressure - 30m Head:** Excellent - no water penetration through a 15 mm thick test piece.

### SURFACE PREPARATION

All substrates should be cleaned and free of dust, plaster oil, paint, grease, corrosion deposit and any other deleterious substance. 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 **KUT SBR NO.1** for cementitious mixes



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## APPLICATION

Immediately before priming, the concrete substrate should be thoroughly dampened with water with any excess being brushed off. All surfaces must be primed by stippling in the slurry coat of 1 volume **KUT SBR NO. 1** to 3 volumes fresh cement. In order to obtain a smooth consistency, the cement should be blended slowly into the liquid. Stir frequently during use to offset settlement. 17 kg of SBR mixed with 50kg cement will cover 32-38 sq.m./coat dependant on substrate texture and thickness applied. Avoid "puddling" off the slurry coat. The topping must be applied into the wet slurry. If the slurry dries out it must be removed and the clean substrate reprimed.

A typical mix design for:

(i) Patching and repair mortar or a render is:

Cement	50 kgs
Grade C/M sharp sand	150 kgs
<b>KUT SBR NO.1</b>	10 kgs
Water	8 litres approx.

The minimum recommended thickness is 6 mm.

(ii) For heavy-duty floor screeds, replace half the sand with local aggregate 3/16" (5mm). Use at a semi-dry cohesive consistency at a thickness of 10-25 mm.

(iii) For bonding of slip bricks, tiles etc.

Cement	50 kg.
Grade C/M sharp sand	125 kg.
<b>KUT SBR NO.1</b>	15 kg.
Water	3 litres approx.

Water is used to adjust to a fine mortar consistency.

Recommended thickness 6-40 mm.

## GENERAL INSTRUCTIONS

Always prepare surface thoroughly. Toe-in all edges wherever possible to avoid feather edging. All surface including edges must be primed. All application should be wet on wet, the primer must not be allowed to dry. The water content should be kept to the minimum necessary. In order to prevent rapid drying, mortars should be properly cured as per standard curing procedure of concrete. Minimum application temperature is 5o C. Do not retemper mortar or prime after initial set.

## PACKAGING

**KUT SBR NO.1** is available in 5, 20 and 200 kg containers.

## PRECAUTIONS

**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.

**Fire resistance:** **KUT SBR NO.1** is not flammable.

## PERFORMANCE SPECIFICATION

**KUT SBR NO.1** meet the performance requirements of **ASTM C – 1059** - Standard specification for Latex agents for bonding fresh to hardened concrete, Type II.

## HEALTH AND SAFETY

**KUT SBR NO.1** 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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