

MORTAR AND SCREED MODIFIER CUM BONDING AID

● Uses

For modifying and improving bonding of floor toppings, renderings and mortars; repair of worn, damaged and spalled concrete, repair of large cracks; polymer modified floor screeds; waterproof plasters for masonry and slurries.

● Advanages

- Simple to use** - Single component, gauged as required.
- High adhesion** - Provides excellent bond to concrete, adhesion plaster, masonry, stone work, etc.
- Improves durability** -Gives weather resistant mortar with improved impermeability to chlorides and other harmfulagents.
- Reduces permeability**- Provides waterproof screeds, plasters and permeability slurries.
- Increases strength** - Improved tensile and flexural properties allow thin applications.
- Versatile** - Compatible with all common hydraulic cements.
- Cost effective** - TETRABOND SBR is economical to use

● Description

TETRABOND SBR is modified styrene butadiene rubber emulsion specially designed for use as a bonding aid and gauging liquid for cementitious systems. It is resistant to hydrolysis and can therefore be used for external applications too.

● Properties

- Specific gravity** 1.02 to 1.03 g/cc
- Typical mechanical properties of 1:3 cement sand mortar at W/C - 0.45 for control and W/C - 0.35 for mortar containing TETRABOND SBR (5 liters / 50 kg cement). Tested in accordance with BS 6319 & wet cured.
- Note** : Increased dosages of TETRABOND SBR and further water reduction leads to improved mechanical properties.
- Chemical resistance** : Cementitious based materials have limited chemicalresistance. The addition of TETRABOND SBR to cement mortars reduces permeability and therefore helps reduce the rate of attack by aggressive chemicals.

● Application Instructions

Surface Preparation : The object 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 deleterious substances. Laitance should be removed by mechanical means. Smooth substrates must be mechanically roughened e.g. by scabbling, needle gun or grit blasting to provide an adequate key. Corroded reinforcing

Mechanical properties	Control	TETRABOND SBR
Compressive strength (N/mm2)		
3 days	11.5	12.5
7 days	13.0	14.5
28 days	22.0	24.0
Tensile strength (N/mm ²)@28 days		
	2.5	3.5
Flexural strength (N/mm ²) @ 28 days		
	5.0	6.5

steel should be exposed around its full circumference and cleaned to remove all loose scale and corrosion deposits. It is always preferably to clean the steel to a bright condition. Use of emery cloth, grit or sand blasting is recommended.

● Priming

Reinforcing steel must be primed with ARROTILE Primer immediately after cleaning. The concrete substrate should be thoroughly dampened with water and any excess water removed before being primed by thoroughly scrubbing in a slurry coat of 1 volume TETRABOND SBR to 1 volume water to 3 volumes fresh cement. In order to obtain a smooth consistency the cement should be blended slowly into the liquids. Stir frequently during use to offset settlement. Avoid 'puddling' of the slurry coat. The topping must be applied on to the wet slurry. If the slurry dries out it must be removed and the clean substrate reprimed

TETRABOND SBR

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● Typical Mix Design

1. Patching and repair mortars and plaster for masonry
 2. Heavy duty floor screeds
- The screed should be of a semi-dry cohesive consistency. Cleaning: Tools and equipment should be washed with water immediately after use.

● Additional Guidance

Prepare surfaces thoroughly. Toe-in at edges wherever possible to avoid feather edging. All surfaces including edges must be primed. All applications should be wet on wet, the primer must not be allowed to dry. The level of added water in the mix designs may need adjustment to achieve the required consistency. In general water content should be kept to the minimum necessary. For consistent performance the use of clean, dry sand is recommended. Where wet sand is used, reduce the addition of water as appropriate. In order to prevent rapid drying, mortars should be properly cured with Redicure WB, curing compound. Protect uncured mortar from frost. Do not retemper mortar or primer after initial set. Minimum application temperature is 10°C. For permanently immersed conditions consult Local ARROTILE office.

● Packaging

TETRBOND SBR is supplied in 125ml, 250ml, 500ml, 1, 5, 10, 20, 50 and 200 liter containers.

● Coverage

Slurry primer - approximately 4- 5 m²/ liter depending on substrate porosity.

● Coverage

Shelf life : TETRABOND SBR has a shelf life of 12 months if kept in a drystore in unopened condition.

● Precautions

Health & Safety instructions

TETRABOND SBR should not come in contact with skin and eyes or be swallowed. Protective gloves and goggles should be worn during handling the product. If contact with skin occurs, wash well with soap and water. Eye contamination should be washed thoroughly with clean water and medical advice sought. If swallowed seek medical attention immediately - Do not induce vomiting.

Cement	50 kg
3-6mm chips	Granite 75 kg
Zone II sand	75 kg
TETRABOND SBR	5 - 9 liters
Recommended water addition	8-12liters
Recommended thickness	10 to 25mm

Fire: TETRABOND SBR is non flammable.



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