



TEKFLOOR

TEKCEM SBR

**Tekcem SBR** is a styrene-butadiene co-polymer latex emulsion specially designed for use in cementitious mixes. Tekbond SBR is used as an admixture to improve durability, abrasion resistance, water resistance and strength in screeds, renders, concrete and mortar. The improvement in physical properties using Tekbond SBR is generally superior to those obtained with other modifying agents. Tekbond SBR can also be used with cement as a reliable water resistant bonding primer.

### ADVANTAGES

- **Allows installation of thinner screed sections**
- **Improved resistance to water and water vapour (reduced permeability)**
- **Low shrinkage and improved strength of screeds**
- **Screeds can be mixed with reduced water / cement ratios**
- **Improved physical strength (compressive and tensile)**
- **Improved surface durability / reduced surface dusting**

### USES

The use of Tekbond SBR as an admixture provides a “polymer modified” screed with improved strength and durability as well as quicker drying properties to receive floor finishes.

Tekbond SBR can also be used with cement as a slurry to provide bonding of a screed to a substrate or with water as a sealer / primer.

### MIXING AND APPLICATION

As an admixture to a screed a dosage of 20 litres of Tekbond SBR per 100kg of Portland cement is adequate. For extreme conditions, where improved waterproofing and/or chemical resistance is required then dosage should be increased to 30 litres of Tekbond SBR per 100kg of Portland Cement. (With

higher dosages, the extra water addition is very low. Therefore, use of wet aggregates and sand may result in excessive workability). This should then be mixed with suitable aggregates and water to the required semi dry consistency. Mixing should be thorough and preferably achieved using a suitable forced action mixer. Care should be taken not to over water, particularly if wet aggregates are used as the overall water demand will be low.

A sealer coat should consist of (typically) 1 part Tekbond SBR to 3 parts water (by volume). This should be applied prior to application of the bonding coat.

A bonding coat should consist of (typically) 2 Parts OPC to 3 Parts Tekbond SBR to 1 part water (by volume) mixed into a smooth paste.

This should be applied evenly to the base using a stiff brush at a rate of approx. 3m<sup>2</sup> per litre depending on surface texture and porosity of substrate. There should be no standing water. The bonding coat must not be allowed to dry prior to overlaying with the screed.

Material should be used immediately after mixing.

Tekbond SBR modified screeds should not be force dried or exposed to severe drying conditions. Ideally polythene covering should be used for 48 to 72 hours after laying, after which drying should be allowed to occur naturally.



## SUBSTRATES

Substrates should be prepared as for sand / cement screeds. Sudden level changes in the substrate would cause sudden thickness changes in the screed and should be avoided. This situation would induce cracking.

Bonded screeds (as described) should be preferred and used wherever possible, particularly in heavily trafficked areas..

Unbonded screeds should be applied over a suitable damp proof or separating membrane at a minimum thickness of 50mm.

Partially bonded screeds, with no separating membrane but with no bonding agent used, are not good practice as this situation tends to induce cracking.

Floating screeds should use a suitable membrane to separate the screed from the underlying insulation and should be at a minimum thickness of 75mm.

## MATERIAL PROPERTIES

Description	Milky white liquid
Specific gravity	1.00g/cm <sup>3</sup>
pH	>11.5
Chloride content	<0.1%
NA <sub>2</sub> O equivalent	<4%

## HEALTH AND SAFETY

Please also see the Material safety Data Sheet

Tekbond SBR is a non hazardous product but in line with normal handling procedures, personal protective equipment should be worn.