



TSIRCON CO LTD

MANUFACTURERS & TRADERS
OF BUILDING MATERIALS

Ημ. έκδοσης 5/2006

TSIRCO-SBR LATEX

**An economical polymer modifier additive for cementitious screeds
and mortars**

Product

Polymer additive modifier.

Composition

White emulsion synthetic polymer.

Purpose

It is an economical polymer, which improves the properties of cementitious materials, mainly the adhesion, flexural, tensile and compressive strengths.

Usage

10% to 30% Volume/Weight on the weight of cement i.e. 5-15 litres of TSIRCO-SBR LATEX per 50kg of cement.

Pack

4, 20 and 210 litres.

Advantages

TSIRCO-SBR LATEX is an economical polymer, which improves the adhesion properties of mortar mixes. At the same time increases the resistance to chemical attack, abrasion and cracking. It is recommended where high strength and high quality mortar mixes are required. It is also recommended for any repair jobs.



Introduction

TSIRCO-SBR LATEX is formulated to be used as an admixture with cement mixtures. When added to concrete and mortars, TSIRCO-SBR LATEX increases their tensile strength, their resistance to abrasion their workability, and also allows the reduction of the *water to cement* ratio. This leads to a stronger mix, less permeable to water. TSIRCO-SBR LATEX improves the adhesion of mortar to various substrates, such as mature concrete. As a primer, TSIRCO-SBR LATEX improves bonding.

Typical properties:

Composition: A milky-white emulsion of styrene-butadiene.

Solids content: 13%

Specific gravity: 1.00

pH: 8

Dosage: Depending on the intended use, the normal dosage of TSIRCO-SBR LATEX should be in the range of 10% to 30% of the weight of cement used. The effect on setting and hardening will be insignificant at this range. If the dosage is increased, the cement will hydrate at a slower rate. If used in thin screeds, the substrates must be well wetted and without any ponding of water, before the application of the mix. Care must be taken to avoid premature drying.

Where to use: Some common applications of TSIRCO-SBR LATEX include:

- durable renders and screeds
- floor repairs
- crack sealing
- tile bedding
- acid resistant floors in dairy plants, abattoirs e.t.c.

TSIRCO-SBR LATEX can also be used as an adhesive material.



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How to use

Dilute TSIRCO-SBR LATEX with water and use it to improve the properties of mortars and concrete. Based on the application, *TSIRCO-SBR LATEX* to *water* ratio varies from 1:1 to 1:4 as follows:

- **1:1** for bonding and priming coats
- **1:1 to 1:3** for minor repairs, screeds, levelling and jointing
- **1:2 to 1:3** for bedding tiles and grouts
- **1:2 to 1:4** for rendering

If you require screeds and coatings of higher flexibility values and increased resistance to abrasion and chemical contamination, you may increase the TSIRCO-SBR LATEX to water ratio up to 2:1.

It must be pointed out that mortars treated with TSIRCO-SBR LATEX usually harden slightly more slowly than normal mortars.

In very hot weather conditions, to avoid rapid drying after the application, wet the surface with water as soon as the mortar has set. For outdoor cases drying out may be prevented by the application of a curing membrane.