

Isopol SBR

Application Instructions

Introduction

A styrene butadiene (SBR) polymer latex screed additive and bonding agent.

Uses

To produce polymer modified wearing screeds for heavy duty and industrial flooring as well as rapid drying levelling screeds (minimum 10 mm thickness) to receive various types of floor finishes.

Preparation of Substrate

All substrates should be free of dirt, oil, curing agents and other contamination. Remove any surface laitance by captive shot blasting or heavy scarification followed by vacuum cleaning.

Priming and Grouting

All prepared surfaces should be sealed with a dilute seal coat of Isopol SBR.

The sealed surfaces should be grouted with a bonding slurry onto the sealer coat. Thoroughly scrub the bonding slurry at the recommended coverage and immediately apply the screed. The bonding slurry must not be allowed to dry out.

For optimum adhesion in critical areas, use **Isocrete M-Bond** epoxy bonding agent, or **Isocrete M-Bond Extra** epoxy resin combined dpm and bonding agent.

Typical Mix Designs

Sealer Coat

Isopol SBR	1 volume
Water	5 volumes

Bonding Slurry

Isopol SBR	1 volume
Water	1 volume
Portland cement	3 volumes

Mixing of the Screed

A forced action mixer, e.g. a Creteangle or Screedmaster, must be used.

Start mixer.

1. Add 75% of sand and aggregates.
2. Add all cement.
3. Add all Isopol SBR.
4. Add 75% of water.
5. Add remaining aggregates.
6. Adjust water to give the required consistency.

Note: The mix design is based on dry aggregates.
The total water requirement will depend on the moisture content and quality of the sand.

Typical Mix Designs

	Standard Water Resistant	Heavy Duty Water Resistant
Thickness	10 - 40 mm	30 -100 mm
Portland cement*	50 kg	50 kg
Sand**	175 kg	150 kg
6 mm granite	-	50 kg
Isopol SBR	10 kg	10 kg
Water (approx.)	11 kg	11 kg
Density	2200 kg/m ³	2300 kg/m ³

* Portland Cement must conform to BS EN 197-1 Class 42.5 or above

** Sand 0/4 mm (MP) category 1 to BS 13139:2002

Screed Application

Lay immediately after mixing and into the still wet bonding slurry. Ensure good compaction, particularly at edges and formwork. Strike off to required levels and finish with either a steel or wood float, depending on required finishes.

Curing

Avoid rapid drying. As soon as possible after laying, cover with polythene sheeting for 48 to 72 hours.

Unbonded and Floating Screeds

It is recommended that heavily trafficked Isopol SBR screed is laid bonded wherever possible. Where a dpm is required, this can be achieved by bonding the screed with Isocrete M-Bond Extra combined dpm and bonding agent. Isopol SBR screeds may be laid unbonded (minimum thickness 40 mm) or floating (minimum thickness 75 mm). Both unbonded and floating screeds should be reinforced throughout.

Reinforcement

The screed may be reinforced with Isocrete PP Fibres (see separate data sheet). Thick screeds, over 50 mm and screeds to provide water resistance, will benefit from reinforcement. All unbonded and floating screeds are to be reinforced.

Resin finishes

If a resin finish is to be laid on a fibre reinforced Isopol SBR, any protruding fibres should be burned off beforehand as they may promote the formation of air bubbles in the finish or protrude through its surface.

Coverage

- Sealer coat – 5 to 10 m² per kg of Isopol SBR
- Bonding slurry – 3 m² per kg of Isopol SBR
- Screed additive – 2 kg of Isopol SBR per m² at 25 mm thickness

Storage and Shelf Life

Stored unopened in dry conditions at 10 to 25°C, shelf life will be 12 months minimum.

Health and Safety

Some of the components of this product may be hazardous during mixing and application. Please consult the relevant Health and Safety data sheets, available from Flowcrete UK Ltd.

Any suggested practices or installation specifications for the composite floor or wall system (as opposed to individual product performance specifications) included in this communication (or any other) from Flowcrete UK Ltd constitute potential options only and do not constitute nor replace professional advice in such regard. Flowcrete UK Ltd recommends any customer seek independent advice from a qualified consultant prior to reaching any decision on design, installation or otherwise.

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