

ISOPOL SBR

Description

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

Uses

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

Benefits

- ✓ Toppings and screeds can be applied at low thickness.
- ✓ Toppings and screeds installed at low water : cement ratios.
- ✓ Excellent resistance to water and water vapour.
- ✓ Low shrinkage plus rapid strength development.
- ✓ Improved physical strengths i.e. compressive, flexural, tensile.

SPECIFICATION

Surface preparation

All substrates should be free of dirt, oil, curing agents and other contamination. Remove any surface laitence 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. [See mix design a)]

The sealed surfaces should be grouted with a bonding slurry [See mix design b)] onto the sealer coat. Thoroughly scrub the bonding slurry at the recommended coverage, and immediately apply the screed. 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.

Mixing of the Screed [Mix design c)]

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.

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.

General Specification

Isocrete Isopol SBR screed additive to be supplied and laid bonded with Isopol SBR primer and grout in accordance with the instructions of **Isocrete Floor Screeds Ltd.**, Sandbach, Cheshire.



Unbonded & 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 50mm) or floating (minimum thickness 75mm). 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 50mm, and screeds to provide water resistance, will benefit from reinforcement. All unbonded and floating screeds are to be reinforced.

Coverage

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

Packaging

Available in 25 kg drums or 200 kg drums.

Storage & Shelf Life

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

Health & Safety

Some of the components of this product may be hazardous during mixing and application. Please consult the relevant Health & Safety Data Sheets, available from Isocrete on request and sent with each delivery.

Typical physical properties

Strengths	7 days	28 days
Compressive	> 30 N/mm ²	> 45 N/mm ²
Flexural	> 6 N/mm ²	> 7 N/mm ²
Tensile	> 2.5 N/mm ²	> 3.5 N/mm ²
Adhesive	> 1.5 N/mm ²	> 2.0 N/mm ²
Shrinkage	< 400 microstrain	
Fresh wet density	2200 kg/m ³	
Initial set	4 to 5 hours	

Typical Mix Designs

a) Sealer Coat

Isopol SBR	1 volume
Water	5 volumes

b) Bonding Slurry

Isopol SBR	1 volume
Water	1 volume
Portland cement	3 volumes

c) Screed

	Standard	Heavy Duty (water resistant)
Thickness	10 - 40 mm	30-100 mm
Portland cement	50 kg	50 kg
Grade M washed pit sand	175 kg	150 kg
6 mm granite	-	50 kg
Isopol SBR	5 kg	10 kg
Water (approx.)	15 kg	11 kg
Density	2150 kg/m ³	2200 kg/m ³

For alternative mix designs contact Isocrete's technical department.

Further information

Where other products are to be used in conjunction with this material, the relevant technical data sheets should be consulted to determine total requirements.

Clients are welcome to call our Technical Desk or visit our Technology Centre in Sandbach.

Important Note

Isocrete's products are guaranteed against defective materials and manufacture and are sold subject to its standard Terms and Conditions of Sale, copies of which may be obtained on request.

Isopol SBR 3-01-01 JC

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