

Isopol SBR

Mix designs

Sealer Coat

Isopol SBR	1 volume
Water	5 volumes
Isopol SBR coverage -	5 - 10 m ² /kg.

Bonding Slurry

Isopol SBR	1 volume
Water	1 volume
Portland Cement *	3 volumes
Isopol SBR coverage -	3 m ² /kg.

Example Screed

Heavy Duty

Thickness	30 - 100+ mm
Portland Cement *	50 kgs
0/4mm (MP) category 1 sand **	150 kgs
6 mm granite	50 kgs
Isopol SBR	10 kgs
Water (approx.)	11 kgs
Density	2300 kg/m ³

N.B. Isopol SBR Heavy Duty screed is water resistant.

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

** Sand to BS 13139:2002

For alternative mix designs contact Flowcrete's technical department.

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.

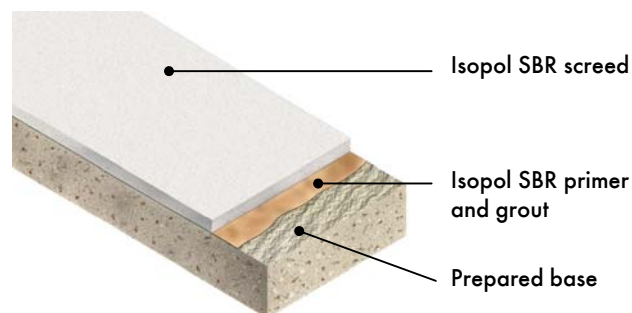
Benefits

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

Project References

Manila International Airport

Typical Cross Section



Model Specification

Product: Isopol SBR screed
Preparatory work and application in accordance with manufacturers instructions.
Manufacturer: Flowcrete UK Ltd
Telephone: Customer Service +44 (0)1270 753000

Isopol SBR screed additive to be supplied and Isopol SBR Screed laid bonded with Isopol SBR sealer coat and bonding slurry in accordance with the manufacturers instructions.

Model specifications are also available for various other screed configurations, including unbonded and floating applications. Additionally, various mix designs for screeds (standard and waterproof; 10-25mm and >25mm thickness; light, medium and heavy duty), sealer coat and bonding slurry are available to suit your application. Please consult Flowcrete Technical Advisors.

Installation Service

The installation can be carried out by any competent contractor. Obtain details of our approved contractors by contacting our customer service team or enquiring via our web site www.flowcrete.com

Products Included in this System

Sealer coat: Isopol SBR @ ~0.06 kg/m²
Bonding slurry: Isopol SBR @ ~0.1 kg/m²
Or, epoxy bonding agent:
M-Bond @ ~0.45 kg/m²
Or, combined dpm and bonding agent:
M-Bond Extra
1st coat M-Bond Extra (Red) @ ~0.45 kg/m²
2nd coat M-Bond Extra (Black) @ ~0.35 kg/m²
Screed additive: Isopol SBR @ ~1.3 kg/m²

(25 mm, standard, medium duty screed)

Curing membrane: Polythene sheet
Detailed application instructions are available upon request.

It is recommended that heavily trafficked Isopol SBR screed is laid bonded wherever possible. In critical areas use M-Bond for optimum adhesion. Where a dpm is required use M-Bond Extra combined dpm and bonding agent.

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.

Minimum thicknesses:

Bonded: 10 mm
Unbonded: 50 mm
Floating: 75 mm

Substrate Requirements

Concrete or screed substrate should be a minimum of 25N/mm², free from laitance, dust and other contamination. The substrate should be dry to 75% RH as per BS8204 & free from rising damp and ground water pressure. If above 75% RH, or no damp proof membrane is present use M-Bond Extra combined dpm and bonding agent directly beneath the Isopol SBR screed, enabling the immediate installation of floor finishes once the screed has dried.

System Performance Guide

The table below shows how well the system complies with different characteristics.

A scale of 1 – 5 where 5 is the best value.

5 Excellent, 4 Very Good, 3 Good (Pass), 2 Fair, 1 Poor

Standard, medium duty, 10-25mm

Fire Safety	5	Shrinkage	4
Compressive Strength	4	Drying Time	3
Impact Resistance	4	Wear Resistance	4
Thermal Resistance	3	Foot Traffic	5

Technical Information

The figures that follow are typical properties achieved in laboratory tests at 20 °C and at 50% Relative Humidity.

Standard, medium duty, 10-25mm

	7 days	28 days
Compressive Strength (BS EN 196-1)	> 30 N/mm ²	> 45 N/mm ²
Flexural Strength (BS EN 196-1)	> 6 N/mm ²	> 7 N/mm ²
Tensile Strength (BS EN 196-1)	> 2.5 N/mm ²	> 3.5 N/mm ²
Adhesion	> 1.5 N/mm ²	> 2.0 N/mm ²
Shrinkage	< 400 microstrain	
Fresh wet density	2200kg/m ³	

Speed of Cure

Standard, medium duty, 10-25mm

	10 °C	20 °C
Working time	2 - 3 hrs	2 hrs
Light traffic	2 days	24 hrs
Full traffic	7 days	7 days
Curing under polythene	2 - 3 days	2 - 3 days

Drying time to receive finishes (BS8203) 1 week per 25mm in good drying conditions (20 °C, 50% RH, good ventilation) from removal of the curing polythene sheet.

Important Note

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

Focus on the Floorzone

Flowcrete Group plc are world leaders in specialist industrial and commercial flooring. Systems available include: underfloor heating systems, floor screeds, surface damp proof membranes, decorative floor finishes, seamless terrazzo, car park deck waterproofing, corrosion protection systems... to name just a few.

Our objective is to satisfy your Floorzone needs.

Further Information

To ensure you are specifying a fit for purpose flooring for your project please consult our Technical Advisors on the number below or visit our website to register your interest in specifying one of the most durable floors on the market.

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