

## Flowpol SBR

A styrene butadiene (SBR) polymer latex screed additive and bonding agent that produces a rapid drying, high strength screed.

Provides a level screed suitable for receiving various types of floor finishes for industrial use.



### High Strength:

Screeds installed at low water:cement ratios due to strong plasticising effect.



### Low Thicknesses:

Toppings and screeds can be applied as low as 10mm.



### Excellent Water Resistance:

Provides excellent resistance to water and water vapour.



### Impact Resistant:

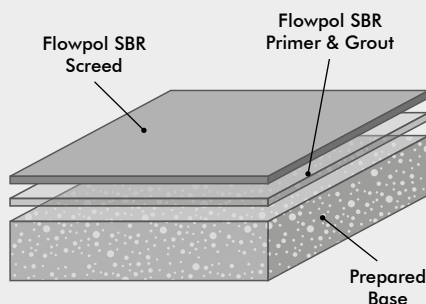
Improves impact resistance for toppings and screeds.



### Rapid Drying:

Low shrinkage plus rapid drying and strength development.

### System Design



### Technical Profile\*

COMPRESSIVE STRENGTH	7 DAYS	28 DAYS	
BS EN 13892-2	>30 N/mm <sup>2</sup>	>45 N/mm <sup>2</sup>	
FLEXURAL STRENGTH			
BS EN 13892-2	>6 N/mm <sup>2</sup>	>7 N/mm <sup>2</sup>	
TENSILE STRENGTH			
BS EN 13892-2	>2.5 N/mm <sup>2</sup>	>3.5 N/mm <sup>2</sup>	
ADHESION			
	>1.5 N/mm <sup>2</sup>	>2.0 N/mm <sup>2</sup>	
SHRINKAGE			
<400 microstrain			
FRESH WET DENSITY			
2,200kg/m <sup>3</sup>			
SPEED OF CURE		10 °C	20 °C
Working Time		2 - 3 h	2 h
Light Traffic		2 d	24 h
Full Traffic		7 d	7 d
Curing Under Polythene		2 - 3 d	2 - 3 d

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

BS 197-1 Type CEM I, 52.5N cement and laboratory graded sand 0/4 mm (MP) category 1 to BS 13139:2002.

Above results tested on Standard, Medium Duty (10-25mm) application.

### Typical Mix Designs

Sealer Coat	
Flowpol SBR	1 volume
Water	5 volumes
Flowpol SBR coverage	5 - 10m <sup>2</sup> /kg

Bonding Slurry	
Flowpol SBR	1 volume
Water	1 volume
Portland Cement*	3 volumes
Flowpol SBR coverage	3m <sup>2</sup> /kg

### Water Resistant Screeds

Standard Duty	
Thickness	10 - 40+ mm
Portland Cement*	50 kgs
0/4mm (MP) category 1 sand**	200 kgs
6 mm granite	-
Flowpol SBR	10 kgs
Water (approx. )	11 kgs
Density	2200 kg/m <sup>3</sup>

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

\*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  
For alternative mix designs contact Flowcrete's technical department.

## Model Specification

System	Flowpol SBR
Manufacturer	Flowcrete Asia

Preparatory work and application in accordance with manufacturer's instructions.

Flowpol SBR screed additive to be supplied and Flowpol SBR Screed laid bonded with Flowpol 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.

Please consult Flowcrete Technical Advisors.

## Products Included In This System

**Sealer Coat:** Flowpol SBR @ 1.0 kg/ 5-10m<sup>2</sup>

**Bonding Slurry:** Flowpol SBR @ 1.0 kg/ 3m<sup>2</sup>

Or,

**Epoxy Bonding Agent:** M-Bond @ ~0.45 kg/m<sup>2</sup>

Or,

**Combined DPM & Bonding Agent:** M-Bond Extra

1st coat M-Bond Extra (Red) @ ~0.45 kg/m<sup>2</sup>

2nd coat M-Bond Extra (Black) @ ~0.35 kg/m<sup>2</sup>

**Screed Additive:** Flowpol SBR @ 2.25 kg/m<sup>2</sup>  
(25 mm thick screed)

**Curing Membrane:** Polythene sheet

Detailed application instructions are available upon request.

It is recommended that heavily trafficked Flowpol 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 50mm, and screeds to provide water resistance will benefit from reinforcement. All unbonded and floating screeds are to be reinforced.

## Minimum Thickness

Bonded: 10mm

Unbonded: 40mm

Floating: 75mm

## Substrate Requirements

Concrete or screed substrate should be a minimum of 25N/mm<sup>2</sup>, free from laitance, dust and other contamination. The substrate should be dry to 75% RH as per BS 8204 & 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 Flowpol SBR screed, enabling the immediate installation of floor finishes once the screed has dried.

## Installation Service

The installation should be carried out by a licensed contractor with a documented quality assurance scheme. For details of our licensed contractors, contact our customer service team or enquire via our website at [www.flowcreteasia.com](http://www.flowcreteasia.com)

## Environmental Considerations

The finished system is assessed as non-hazardous to health and the environment. The long service life and seamless surface reduce the need for repairs, maintenance and cleaning. Environmental and health considerations are controlled during manufacture and application of the products by Flowcrete staff and fully trained and experienced contractors.

## Important Note

Flowcrete products are guaranteed against defective materials and manufacture and are sold subject to our standard 'Warranty, Terms and Conditions of Sale', copies of which can be obtained on request. Warranty does not cover suitability, fit for purpose or any consequential or related damages.

## Further Information

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

1. Light colours may require additional coats to achieve desired results 2. It is recommended that top coat colours are close to base coats colours to achieve desired results  
3. This product is not UV stable and may discolour unless otherwise stated 4. System Data Sheet to be read in conjunction with Method Statement and Product data Sheets.