Flowcrete
for the world at your feet

System Data Sheet

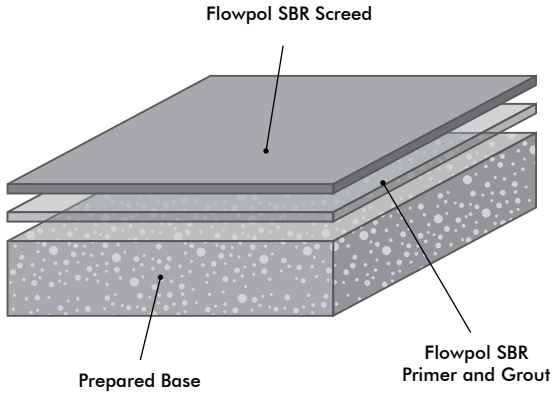
Flowpol SBR

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 10mm 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

System Design



Typical Mix Designs

Sealer Coat

Flowpol SBR	1 volume
Water	5 volumes
Flowpol SBR coverage	5 - 10m²/kg

Bonding Slurry

Flowpol SBR	1 volume
Water	1 volume
Portland Cement*	3 volumes
Flowpol SBR coverage	3m²/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/m³

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/m³

*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 Screed
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.

Substrate Requirements

Concrete or screed substrate should be a minimum of 25N/mm^2, 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.

Products Included in this System

Sealer coat: Flowpol SBR @ 1.0 kg/ 5 – 10 m^2
Bonding slurry: Flowpol SBR @ 1.0 kg/ 3 m^2

Or,

Epoxy bonding agent:
M-Bond @ ~0.45 kg/m^2

Or

Combined dpm and bonding agent:
M-Bond Extra
1st coat M-Bond Extra (Red) @ ~0.45 kg/m^2
2nd coat M-Bond Extra (Black) @ ~0.35 kg/m^2

Screed additive: Flowpol SBR @ 2.25 kg/m^2
(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 Thicknesses

Bonded: 10 mm
Unbonded: 40 mm
Floating: 75 mm

Installation Service

The installation should be carried out by a Flowcrete approved applicator with a documented quality assurance scheme. Obtain details of our approved contractors by contacting our customer service team or enquiring via our website at www.flowcreteasia.com

Technical Information

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.

Standard, Medium Duty, 10-25mm

	7 Days	28 Days
Compressive Strength (BS EN 13892-2)	>30 N/mm^2	>45 N/mm^2
Flexural Strength (BS EN 13892-2)	>6 N/mm^2	>7 N/mm^2
Tensile Strength (BS EN 13892-2)	>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 (BS 8203) 1 week per 25mm in good drying conditions (20°C, 50% RH, good ventilation) from removal of the curing polythene sheet.

Customer Service

For more information regarding this product please contact your local Flowcrete office:

Flowcrete Asia	+60 3 6277 9575
Flowcrete Hong Kong	+852 2795 0478
Flowcrete China	+86 10 8472 1912
Flowcrete Thailand	+66 2539 3424
Flowcrete Indonesia	+62 21 252 3201
Flowcrete Vietnam	+84 8 6287 0846

Visit our website for more locations.

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'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.

Further Information

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