

Isopol SBR

A styrene butadiene (SBR) polymer latex screed additive and bonding agent for heavy duty flooring or for rapid drying, levelling screeds (min. 10 mm thickness) to receive various types of floor finishes.



Thickness:

Toppings and screeds can be applied at low thickness.



Resistant:

Good abrasion resistance and excellent resistance to water and water vapour.



Shrinkage:

Low shrinkage plus rapid strength development.



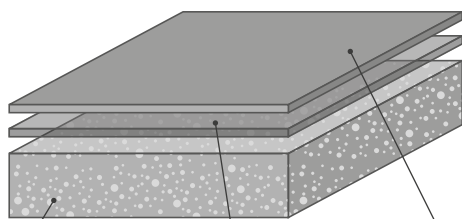
Durable:

Demonstrates good compressive, flexural and tensile strength.



Strong Plasticising Effect:

Toppings & screeds can be installed at low water:cement ratios.



Prepared Substrate

Isopol SBR Primer and Grout

Isopol SBR

Technical Profile*

SHRINKAGE

<400 microstrain

FRESH WET DENSITY

2,200 kg/m³

COMPRESSIVE STRENGTH (BS EN 13892-2)

>30 N/mm² (7 days)

>45 N/mm² (28 days)

FLEXURAL STRENGTH (BS EN 13892-2)

>6 N/mm² (7 days)

>7 N/mm² (28 days)

TENSILE STRENGTH (BS EN 13892-2)

>2.5 N/mm² (7 days)

>3.5 N/mm² (28 days)

ADHESION

>1.5 N/mm² (7 days)

>2.0 N/mm² (28 days)

SPEED OF CURE**

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

*The figures that follow are typical properties achieved in laboratory tests at 20°C and at 50% RH. 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. **Standard, medium duty, 10-25mm. 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.

Typical Mix Designs

| | SEALER COAT | BONDING SLURRY |
|------------------|------------------------------------|---------------------------------|
| Isopol SBR | 1 volume @ 5-10 m ² /kg | 1 volume @ 3 m ² /kg |
| Water | 5 volumes | 5 volumes |
| Portland Cement* | - | 3 volumes |

| | WATER RESISTANT SCREED | STANDARD | HEAVY |
|-------------------------------|------------------------|------------------------|------------------------|
| Thickness | | 10-75 mm | 30-100+ mm |
| Portland Cement* | | 50 kg | 50 kg |
| 0/4 mm (MP) category 1 sand** | | 200 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. For alternative mix designs contact Flowcrete's technical department.

Model Specification

| | |
|--------|------------|
| System | Isopol SBR |
|--------|------------|

Preparatory work and application in accordance with manufacturer's instructions. 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. Please consult Flowcrete Technical Advisors.

Products Included In This System

| | |
|---|---|
| Sealer coat | Isopol SBR @ 1.0 kg/ 5–10 m ² |
| Bonding slurry or Epoxy bonding agent or Combined DPM & bonding agent | Isopol SBR @ 1.0 kg/ 3 m ² M-Bond @ ~0.45 kg/m ² M-Bond Extra 1 st coat M-Bond Extra (Red) @ ~0.45 kg/m ² 2 nd coat M-Bond Extra (Black) @ ~0.35 kg/m ² |
| Screed additive | Isopol 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 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.

Substrate Requirements

Concrete or screed substrate should be a minimum of 25 N/mm², free from laitance, dust and other contamination. The substrate should be dry to 75% RH as per BS 8203 and 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.

Installation Service

The installation should be carried out by a approved contractor with a documented quality assurance scheme. For details of our approved contractors, contact your local Flowcrete office. Detailed application instructions are available upon request.

Important Notes

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. Please review warranty in detail before installing the products.

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. 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.

System Datasheet written for Flowcrete UK Ltd. Please consult Technical Team in your own country region for specific details. [11/06/19, 01 UK]