

Description

Resbuild SBR is a Styrene-Butadiene co-polymer emulsion which imparts beneficial property improvements to cementitious mixes. After appropriate dilution with water, the resultant liquid may be used to gauge the cementitious mix to the desired consistency. A reduced water to cement ratio leads to superior mechanical properties and resistance to moisture ingress.

Typical Uses

- a) Flooring: screeds and patch repairs in dairies, abattoirs, breweries, factories, etc.
- b) Bonding additive: renders, slip bricks, tiles, coping stones, etc.
- c) Concrete repair: making good structural concrete, increase in effective concrete cover.

Advantages

- Plasticising action
- Waterproofing action
- Improves adhesion
- Reduces permeability
- Increases mechanical strength
- Up-grades chemical resistance
- Versatile and easy to use
- Cost effective
- Improves freeze-thaw resistance
- Compatible with many types of cement

Typical Properties

Appearance: Milky white liquid
Specific Gravity: 1.018g/cm³
Shelf Life: 12 months minimum

Packaging

Resbuild SBR is supplied in 5L, 25L, and 200L packs

Application and use

Surface Preparation

Substrates shall be clean, sound and free from contaminants such as oil, grease, moss, algae, dust and any existing loose or flaking paintwork.

Priming

Surfaces shall be pre-dampened with clean, potable, water, taking care to remove any excess surface water. A 1:1 cement/sharp sand mix should be gauged to a slurry consistency using a 1:1 Resbuild SBR/Water blend. This bonding slurry shall be brushed onto the prepared surface using a stiff brush.

Note: in certain instances it may be deemed preferable to prime with an Epoxy bonding agent such as Resbuild Tackprimer. In such an event the Resbuild Tackprimer should be applied to a dry substrate and be allowed to 'tack up' prior to topping. Please refer to the Resbuild Tackprimer product data sheet for additional information.

Polymer modified cementitious toppings

The appropriate design mix material shall be applied whilst the primer is still tacky, and finished and cured in accordance with good concreting practice.

General Notes

- Resbuild SBR is compatible with Ordinary Portland Cement, Snowcrete, RHPC, SRPC and HAC.
- Keep water addition to a minimum, applying 'semi-dry'.
- Minimum application temperature is 3°C.
- Resbuild Cureseal may be applied as a curing membrane to prevent over-rapid drying out.
- The usable life of these polymer-modified mixes is usually less than those of corresponding unmodified sand/cement mixes e.g. approximately 20-30 minutes.
- Refer to BS8204:part 3: 1993 for additional information relating to polymer-modified cementitious flooring mixes.
- High performance, forced action mortar mixers e.g. Creteangle type, are much better for mixing than concrete mixers.

Please see overleaf for typical design mixes and storage instructions.

Typical Design Mixes

MIX I

Mortar for screeds, renders patch repairs and re-pointing (<12mm)

50 kg OPC
125kg Zone 2 Sand

6 litres Resbuild SBR up to 12 litres water

Yield = 0.09m³ approx.

Notes:

For mixes I and II where thicknesses are to exceed 12mm, a further 25kg of sand should be added to the mix.

MIX III

Heavy duty floor screeds up to 25mm

50 kg OPC
75 kg Zone 2 Sand
75 kg 6mm gravel

6 litres Resbuild SBR up to 12 litres water

Yield = 0.10m³ approx.

Notes:

For mix III apply semi-dry. If thickness is to exceed 25mm, then use only 4 litres Resbuild SBR in the mix.

MIX II

High performance waterproof repair mortar, renders (<12mm)

50kg OPC
125kg Zone 2/3 Sand

9 litres Resbuild SBR up to 9 litres water

Yield=0.09m³ approx

MIX IV

Adhesive/bonding mortar for slip bricks, tiles, kerbs etc.

50 kg OPC
125kg Zone 2 Sand

9 litres Resbuild SBR up to 9 litres water

Yield = 0.09m³

Equipment Cleaning

Clean equipment with water immediately after use.

Curing

Cure in accordance with good concreting practice. Under conditions where rapid drying out is likely, the use of a curing membrane such as Resbuild Cureseal is recommended.

Storage and Shelf Life

Store in dry conditions, out of direct sunlight, at temperatures between 10°C and 25°C.

Resbuild SBR has a minimum shelf life of 12 months when stored in original, unopened containers in accordance with manufacturer's instructions.

Limitations

Avoid frost during storage and use.

Health and Safety

Resbuild SBR is essentially non-hazardous. However, it is invariably used in conjunction with cement which is highly alkaline and irritating to skin and eyes. Wash off all splashes immediately with soap and water. Please refer to the Material Safety Data Sheet for additional information.

The information provided in this Product Data Sheet is intended for general guidance only and is given in good faith based on Resin Building Products Limited current knowledge and experience. No warranty in respect of fitness for a purpose, or any other liability whatsoever can be inferred from the information contained within this data sheet. Users should determine the suitability of the materials for their particular application and should always refer to the most recent issue of the Product Data Sheet for the product concerned. All materials are supplied in accordance with our standard terms and conditions of sale (available upon request).