

SBR LIQUID

Product codes

TP02, TP03, TP24 packaging listed overleaf.

Description

SBR Liquid is a milky white latex based on a modified styrene butadiene copolymer emulsion. The resulting product is a waterproofing and bonding admixture. SBR Liquid can be mixed with cements, sand-cement mortars and concretes. The mixes produced give high bond strength to existing concrete, masonry and reinforcing steel. Weather resistance is improved due to reduced permeability and thinner sections may be applied due to improved flexural and tensile strengths. Additional improved properties include abrasion resistance, freeze thaw resistance and chemical resistance. SBR Liquid is suitable for both internal and external use.

- Uses include:**
- Concrete repairs
 - Floor toppings
 - Bonding of screeds and renders
 - Waterproofing of tanks and pools

**Typical Mix Designs
SBR Liquid Primer**

SBR Liquid : 1 part by volume.
 Ordinary Portland Cement : 1 to 2 parts by volume.
 Add cement slowly to SBR Liquid stirring continuously until a smooth consistency is achieved. Stir occasionally during use. Large quantities may be mixed using a Mortar Stirrer and a slow speed drill.

Mortar and Screed Mix Designs Based On 50kg Cement.

Sand, Aggregate quantities in kilograms. SBR Liquid quantity in litres

Application	Use	F GRADE SAND	GARSIDE 21 SAND	C&M GRADE SAND	WASHED GRANO 3mm	WASHED GRANO 6mm	10mm STONE	SBR LIQUID Litres
Concrete Repair	Steel Cover 25mm			125				10-12
Concrete Repair	Steel Cover 10 – 15mm			125				15
Concrete Repair	50N/mm ₂ Special & Precast			75			150	10
Grano Floor Screed	Heavy Duty 12mm		88		88			9-12
Grano Floor Screed	Heavy Duty 20 – 34mm			150		50		9-12
Floor Screed	Light Duty 10 – 19mm			175				9-12
Floor Screed	Heavy Duty 35 – 40mm			125			100	15
Render	Base Coat onto Strong Background	150						14
Render	Top coat onto base coat & base coat onto moderate b/ground	225						10
Render	Top coat onto base coat & base coat onto weak b/ground	275-300						8
Plaster	Separate Data Sheet							
Water Resistant Bricklaying Mortar	Brick, Natural Stone and Reconstituted Stone	275-300						

Standards

SBR Liquid has been tested in accordance with appropriate parts of the following standards:
 B.S.1881, B.S.6319, B.S.4551

Specification Outline

SBR Liquid as manufactured by Tecroc Products Ltd should be used as the gauging liquid for cementitious mixes. Water may be added to the mixes to adjust workability. The product must be stored, handled and placed strictly in accordance with the manufacturer's instructions.

**Instructions For Use
Preparation**

All contact surfaces must be sound, clean and provide a good mechanical key. Remove all loose material, plaster, paint and oily deposits. Roughen smooth concrete by scabbling or other mechanical means. Corroded reinforcing steel should be fully exposed and cleaned back to bright metal. Cleaned steel should be protected by SBR Liquid Primer



Grouts



Structural Support Mortars



Concrete Repair Products



Construction Adhesives



Resin Et Cementitious Anchors



Highway Products



Coatings



Waterproofing



Ground Engineering

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TECHNICAL DATA

SBR LIQUID

3.1.3

Revision Date 12/2004

Instructions For Use

Mixing

Mixing should be carried out in a forced action mixer such as the Cretangle or Mixal. Add the cement and sand, plus aggregate if required, to the mixing pan and dry premix. Add the SBR Liquid and mix for 1-2 minutes. Add water slowly until the required consistency is achieved.

Placing

SBR Liquid mixes should be placed within the following section thicknesses.

Primer	0.25mm	
Concrete repair mortar	5 – 40mm	
Grano floor screeds		12 – 35mm
Floor screeds	10 – 40mm	
Renders	5 – 15mm	
Plasters	3 – 15mm	
Water resistant bricking mortars	5 – 20mm	

Substrates should be thoroughly dampened before application of the SBR Liquid slurry primer. The slurry primer must not be allowed to dry before the application of the topping mix. Only prime sufficient area to ensure primer is wet enough to receive the topping.

Curing

Applied topping mixes should be cured in accordance with good concrete practice including water-spray, polythene sheeting and spray applied curing membrane.

Typical Properties @ 20°C

Test Values

The following test values were obtained from a mix prepared to the following mix design:

Materials

Ordinary Portland Cement
Sharp Sand Grade M to B.S.882
Sand : Cement ratio 3 : 1
Water : Cement ratio 0.27

SBR Liquid : 10 litres to 50kg Cement

Compressive Strength @ 28 days 50N/mm₂

Tensile Strength @ 7 Days 6N/mm₂

Flexural Strength @ 7 Days 9N/mm₂

(Curing consisted of 1 day covered, 27 days dry)

Compatibility

SBR Liquid is compatible with the following Cements and Pozzolans:

Ordinary Portland Cement
Rapid Hardening Portland Cement
Calcium Aluminate Cement
Pulverised Fuel Ash
Ground Granulated Blastfurnace Slag
Calcium Sulphoaluminate Systems

SBR Liquid is not recommended for use with masonry cement or in conjunction with air entraining admixtures.

Chemical Resistance

Portland Cement mixes which are polymer free are vulnerable to chemical attack by acidic and sulphate containing materials. The addition of SBR Liquid at the higher quoted levels will improve the chemical resistance of Portland cement mixes.

Quality Assurance

Tecroc Products Ltd is a firm of Assessed Capability. The Company's quality system conforms to BS EN ISO 9001:2000 and is assessed by SGS Ltd Systems and Services Certification.

Storage And Shelf Life

SBR Liquid will have a shelf life of 12 months when kept in dry conditions at a temperature of 5°C to 35°C. Storage at higher temperatures may reduce the shelf life. SBR Liquid must be protected from frost. Stir well before use.

Packaging And Ordering

SBR Liquid is supplied in:

5 litre polybottles	Product Code TP 02
25 litre polybottle	Product Code TP 03
200 litres barrels.	Product Code TP 24

For further information and sales please contact Your local Tecroc Products office as listed below.

Precautions

Health and Safety

SBR Liquid should not come into contact with skin, eyes or be swallowed. Protective glasses should be worn during mixing and application. Should SBR Liquid come into contact with skin, remove before hardening by washing with soap and water. Should accidental eye contact occur wash with plenty of water and seek medical advice. If swallowed seek medical advice immediately. Do not induce vomiting. For full health and safety data refer to Product Safety Data Sheet

Fire

SBR Liquid is non-flammable.

Yield

The yield of SBR Liquid mortar mixes will depend on the application as described in the tables above. The coverage of the SBR Liquid Primer is 2-3m² per litre dependant on substrate porosity.

Tecroc Products Ltd products are guaranteed against defective materials and manufacture. Products are sold subject to the Tecroc Products Ltd Terms and Conditions of Sale, copies of which are forwarded on invoice and are available on request. Tecroc Products Ltd endeavours to ensure that the above data and any further advice is correct, however, it cannot accept any direct or indirect liability for the use of its products as such usage is beyond its control.

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