

SBR GAUGING LIQUID

Product codes

TP54, Packaging listed overleaf.

Description

SBR Gauging Liquid is a milky white latex based on a modified styrene butadiene copolymer emulsion. The medium range solids content has been designed to act as a gauging liquid for other Tecroc products and does not require the addition of further water to the mix designs. The resulting products are weather resistant due to reduced permeability. The placed materials have higher bond strength to existing concrete, masonry and reinforcing steel. Thin sections may be applied due to improved flexural and tensile strengths. Improved product properties include abrasion resistance, freeze thaw resistance and chemical resistance. Products designed with SBR Gauging Liquid are suitable for both internal and external use.

Uses include: Volume supply for use with Tecroc product's SBR Mortar
Concrete repairs
Render applications

Typical Properties of SBR Mortar Gauged With SBR Gauging Liquid @ 20°C

Compressive Strength

1 Day	7 Days	28 Days
9.0 N/mm ²	16.7 N/mm ²	22.5 N/mm ²

Density 1380 kg/m³
Coefficient of Thermal Expansion 8-10 x 10⁻⁶/°C
Useable Life 60 minutes

Chemical Resistance

Portland Cement mixes which are polymer free are vulnerable to chemical attack by many chemicals. The addition of SBR Gauging Liquid 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 9002:1994 and is assessed by SGS Yarsley International Certification Services Ltd.

Specification Outline

When carrying out concrete repairs SBR Gauging Liquid as manufactured by Tecroc Products Ltd should be used as the gauge for SBR Mortar and other cementitious mixes. Water should not 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 Gauging Liquid Primer.

Priming

To prime the prepared concrete surface and reinforcing steel use a slurry formed from a mix of:
SBR Mortar powder One part by volume
SBR Mortar gauging liquid One part by volume
Mix the slurry primer in a suitable mixing vessel using a slow speed drill and Mortar Mixer. Do not mix more than can be applied within the usable time, 45 minutes at 20°C. Apply mortar before the priming coat has dried.

Mixing

SBR Mortar is supplied as 17.5kg of powder mix and 5 litres of gauging liquid. The mix proportions to produce rendering and repair mortars are:

Volume Mixes

4.5 to 6.5 parts by volume powder
1.0 part by volume gauging liquid

Weight Mixes

5.75 to 8.25 parts by weight powder
1.0 part by weight gauging liquid

Pour the gauging liquid into a suitable mixing vessel and slowly add the powder to the liquid whilst continuously mixing. Mix using either a slow speed drill with a Mortar Mixer or a forced action mixer such as the Cretangle. Continue mixing for three minutes after all the powder has been added.

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Placing

Apply the SBR Mortar firmly into the repair area. It may be necessary to use a gloved hand to place and compact the mortar behind reinforcing steel and into narrow corners and edges. Initially finish the surface with a wooden/plastic trowel. Allow the mortar to stiffen then finish finally with a dampened steel trowel.

Application thickness may range from 10mm to 50mm in a single layer vertically and 10mm to 30mm overhead. In situations where thicker layers are required to be built up, the surface of the under layer should be left with a wood float finish and should be scored. Subsequent primer and mortar layers may be applied as soon as the initial layer is firm enough not to distort under the new work.

SBR Mortar may be applied at temperatures between 5°C and 45°C. For application at temperatures outside this range contact the Technical Service Department.

Curing

Curing should be undertaken in accordance with good concrete practice. The curing regime should be applied as soon as finishing is complete. For large areas, as each half square metre is completed, curing should be started. Suitable methods of curing include water spray, polythene sheeting and spray applied concrete curing membrane.

Precautions

Health and Safety

SBR Gauging Liquid should not come into contact with skin, eyes or be swallowed. Protective glasses should be worn during mixing and application. Should SBR Gauging 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 Gauging Liquid is non-flammable.

Storage And Shelf Life

SBR Gauging 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 Gauging Liquid must be protected from frost.

Stir well before use.

Yield

The yield of SBR Gauging Liquid mortar mixes will depend on the application and substrate condition. The coverage of the SBR Gauging Liquid Primer is 2-3m² per litre dependant on substrate porosity.

Packaging And Ordering

SBR Gauging Liquid is supplied in 5 litre polybottles.
5 litre polybottles Product Code TP54

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

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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