GIC SBR Extra

Multi-Purpose Admixture & Bonding Agent

Uses

- Used as a multi purpose and economical liquid to enhance the ultimate strength.
- Used along with sand and cement mortar to improve its mechanical properties.
- Used an additive to improve water resistance.

Typical Applications & Advantages

- Improved strength & flexibility.
- Higher bond strengths.
- Reduced shrinkage cracking.
- Increased abrasion resistance.
- Lower w/c ratio & increased durability.
- Good general chemical resistance.
- Non-toxic, use with potable water.

Product Description

GIC SBR Extra is styrene-butadiene co-polymer latex specifically designed for use in all areas of the building industry where improvements in the physical and mechanical properties of ordinary Portland cement systems are required.

GIC SBR Extra may be used in applications which require the greater strength and flexibility characteristics given by SBR modified mixes; in areas which need a significant improvement in the bonding strength to various substrates, and where increased water impermeability and higher chemical resistance is required.

Typical Properties

Appearance	:	White emulsion
Specific Gravity	:	1.02 @ 25±2°C

Technical Support

GIC provides a comprehensive technical support service to specifiers, end users and contractors and is able to offer on-site technical assistance.

Instructions for Use

Surface Preparation: Use a wire brush to ensure all surfaces are clean, sound, and free from loose particles, old mortar, laitance, dirt etc. Use a suitable chemical degreaser to remove any traces of oil and grease and wash down thoroughly with clean water. When laying slabs or screeds to existing concrete, surfaces must be rough. Lightly scale smooth surfaces prior to application of the fresh mix. When repairing damaged concrete, ensure that existing concrete is cut back to sound material.

Mixing: Mixing should always be carried out using a forced action pan type mixer such as a Creteangle. Do not hand mix unless a very small quantity is required. Add the cement and sand to the mixer and premix for approx. 1 minute. Initially add one-third quantity of the water required. Then add **GIC SBR Extra** and mix for a further 2 minutes; add further quantity of water slowly until the desired consistency is reached. Keep water content to a minimum to obtain maximum hardened properties.

Bonding slurry: Thoroughly wet down absorbent substrates such as concrete, brick and stone ensuring that they are saturated but surface dry. Mix 2 parts cement with 1 part **GIC SBR Extra** to a lump free consistency. Then using a stiff brush apply at a nominal 1mm, working the slurry into the substrate ensuring complete coverage.

Curing: Always ensure that **GIC SBR Extra** modified mixes are thoroughly cured. Moisture cures for 24-36 hours. Thereafter allow to dry slowly. The styrene-butadiene co-polymer latex controls hydration of the cement.

Watch Point

Never apply concrete, screeds etc onto a **GIC SBR Extra** bonding slurry that has been allowed to dry.

Packaging & Storage

GIC SBR Extra is supplied in 20 litre and 200 litre drums and has a minimum shelf life of 12 months provided it is stored under, out of direct sunlight.

Health & Safety Precautions

GIC SBR Extra does not fall into the hazard classifications of current regulations. However, it

should not be swallowed or allowed to be exposed to skin and eyes. Suitable protective gloves and goggles should be worn. Splashes on the skin should be removed with water. In case of contact with eyes rinse immediately with plenty of water and seek medical advice. If swallowed seek medical attention immediately – do not induce vomiting.

For further information, refer to the Material Safety Data Sheet available for this product.

Important note

GIC endeavors to ensure that the technical information contained herein is true, accurate and represents our best knowledge and experience. No warranty is given or implied, as GIC has no control over the conditions of use and the competence of any labor involved in the application are beyond our control.

As all GIC technical data sheets are updated on a regular basis it is the customer's responsibility to check that the product is suitable for the intended application, and that the actual conditions of use are in accordance with those recommended.

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