

TufCure SR

Water Based Concrete Surface Retarder

Uses

To produce an exposed aggregate concrete finish in either face down or face up concrete manufacture, and to produce a mechanically sound construction joint. Typical uses include

- Precast concrete panels
- Insitu construction joints
- Surface preparation of fresh concrete prior to rendering

Typical Applications & Advantages

- Non toxic, inflammable, single component product.
- Suitable for precast, steam curing and site use.
- Suitable for use with many mould types- steel, concrete, fiberglass or plywood.
- To achieve a decorative exposed aggregate finish.
- For providing a mechanical key in construction joints; typically when it is difficult to mechanically scabble.
- As a key for plaster and render layers.
- For site, precast and steam curing applications.

Product Description

TufCure SR is specially formulated for treating the exposed surfaces of concrete in order to retard the setting of the matrix of wet concrete; such that after releasing the concrete from the shutters, the surface film of cement paste may be washed or brushed away. This leaves the aggregate exposed as a clean textured surface, or as a keyed background for plaster and render work. **TufCure SR** can be used to produce satisfactory joints in structural concrete without the expense and time required for hacking or bush hammering.

Typical Properties

Color	: Pale Green
Specific Gravity	: 1.09 @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

TufCure SR should be thoroughly stirred to ensure complete homogeneity. Application is by brush and should be carried out evenly over the interior surface of the shutters at least an hour before the concrete is poured. All moulds and formwork etc. should be clean and free of water, oil and grease at the time of application. Hot weather will reduce the retardation period and retardation will also be less if air spaces are left between the mould and the concrete face. Once the moulds have been treated, the **TufCure SR** film should be protected from rain or other damage.

Care should be taken when placing, tamping or vibrating the concrete so that the flow of the concrete across the face of the mould to which **TufCure SR** is applied is kept to a minimum. Poker vibrators should not be allowed to scour the internally applied face of the mould. The concrete should generally be released from the moulds as soon as possible; this should not be later than 48 hours after concrete placement.

As soon as the shutters are removed the concrete surfaces should be sprayed with water while all loosely adhering material is brushed away. Immediately after the moulds are released they should be cleaned to remove any adhering unset concrete. Loose material, which is removed from the surface, should not be left to lie at the base of the concrete where it will become hard and difficult to remove.

Coverage

Field trials should be conducted with the specific cements and mix designs in use to determine the optimum depth of penetration achieved by the use of **TufCure SR**. Coverage rate will vary depending on actual requirements and mix designs.

As a guide to trials, the following coverage rates should be utilised:

TufCure SR - up to 8 mm penetration use 10-12 m²/litre initially. For a greater depth of retardation use 6-8 m²/litre.





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Compatibility

TufCure SR is suitable for use with ordinary Portland, rapid hardening and high alumina cements. When rapid hardening cement is being used (or concrete containing a rapid hardening admixture) or when elevated curing temperatures are employed, it is advisable to produce trial panels to ascertain the optimum time for which the retarder is operative.

With high alumina cements the concrete should be released from the forms and the surface washed off within 6-8 hours after pouring.

Packaging & Storage

TufCure SR is available in 20 litre and 210 litre drums and it has a minimum shelf life of 12 months provided it is stored under cover, out of direct sunlight.

Health & Safety Precautions

TufCure SR does not fall into the hazard classifications of current regulations. However, it should not be swallowed or allowed to come into contact with 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, 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.

Rev: October 2007

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