

MIXCURE SR

Water based concrete surface retarder

Mixcure SR is 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 aggregates exposed as a clean textured surface, or as a keyed background for plaster and render work.

Appropriation

Mixcure SR is designed to produce satisfactory joints in structural concrete without the expense and time required for hacking or bush hammering.

Characteristics

Non Toxic, inflammable, single component product
Suitable for precast, steam curing and site use
Designed for use with many mould type: steel, concrete, fiberglass or plywood
Eliminates the use of other mould release agents

Technical Data & Properties

Mixcure SR can be used for any one of the following effects:
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 Management

Property: The retarding element only delays the hydration of the surface cement matrix and does not weaken the ultimate strength of the concrete. Mixcure SR is applied to the shutters prior to concreting and such as such only penetrates the top 5 – 10mm of the concrete. The density and porosity of the concrete determine depth of penetration into the concrete. As the surface layer of the concrete is being removed mould release agents are not required to be used.

Surface preparation: All moulds and formwork are clean and free from 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 surface

Direction for use: Mixcure SR should be thoroughly stirred to obtain the 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. Care should be taken when placing, tamping or vibrating the concrete across the face of the mould to which retarder is applied is kept to a minimum. Poker vibrators should not be allowed to score 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 48hours 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.

Composition: A dispersion of retarding resins in water based inert carrier

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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 Mixcure SR Coverage rate will vary depending on actual requirement and mix design.

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

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

Compatibility

Mixcure SR is suitable for use with OPC, rapid hardening and high alumina cements. When rapid hardening cement is being used (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 cement the concrete should be released from the forms and the surface washed off within 6-8 hours after pouring.

Packing & Storage

Available in 20 litres and 210 litres drums. For site installations or batching plants, deliveries will be made in bulk storage tanks. Mixcure SR should be stored in cool, shaded warehouses. Shelf life is 12 months

Health & Safety

Mixcure SR contains no hazardous substances; however it should not be allowed to come into contact with skin and eyes. Wear suitable protective gloves and goggles whilst handling. When in contact with the skin and eyes, wash thoroughly and immediately with warm water. If swallowed seek medical attention. For more details, please refer to the MSDS released on each Fab product

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Technical information given in this datasheet is true and exact to the best of our knowledge, laboratory upshot and hands-on application. The datasheets of all products are revised/updated regularly and hence ensure that the latest release is used for reference and recommendation. The date of the publishing is as in this sheet. All data are mean of numerous tests, assessment and analysis conducted under laboratory ambience. Climatic disparity in temperature, humidity, etc. and porosity of substrate may impinge on the values.

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