Cicosurface Retarder

Concrete surface retarder for precast elements.

Description:

Cicosurface Retarder is a concrete retarder specially formulated for treating the contact faces of the formwork to delay the setting time of the surface matrix, so that after removing the formwork, the surface film of cement and sand may be washed or brushed away leaving aggregate exposed on a clean textured surface or as a keyed background for plasterwork..

Primary uses:

- Surface retarder for producing exposed concrete finish.
- Keyed background for plasterwork.
- Construction joints in structural concrete without the expense of hacking or brush hammering.
- Precast elements to produce key surface.

Advantages:

- Enhance the bonding between concrete and finishing materials like plaster , ceramic , artificial stones..
- Delays the hydration of cement without reducing the ultimate strength of concrete.
- Suitable for most casting conditions.
- Suitable for large units where heat of hydration is excessive.

Typical properties:

Form	Liquid
Color	Orange
Specific gravity @ 25º C	1.3±0.1
Coverage	4-8m²/Ltr

Application Instructions:

Cicosurface Retarder should be well stirred before use. All moulds and formwork must be clean and free from water, oil and grease.

Apply ***Cicosurface Retarder*** evenly using a brush to the interior surface of the forms before the concrete is poured. Once treated, the moulds must be protected from rain and other means of damage.

Hot weather will reduce the retardation period.

Avoid air voids between the moulds and concrete face. When placing, tamping or vibrating the concrete, care should be taken such that the flow of the material across the face of the mould is kept to a minimum.

Concrete should generally be released from mould within 48hours after placing the wet mix and the surface should then be immediately sprayed with water while all loosely adhering material is brushed away.

Depending upon the thickness at which *Cicosurface Retarder* is applied, the retarding effect can be extended.

As soon as the moulds are released they should be washed with water to remove any adhering unset cement. Loose material, which is washed away, should not be left to lie at the base of the concrete where it can become hard and difficult to remove.

The moulds should be recoated with *Cicosurface Retarder* before re-use.

Compatibility:

Cicosurface Retarder is suitable for use with ordinary Portland, rapid hardening and high alumina cements. When rapid hardening cement is being used or when elevated curing temperatures are employed, it is advisable to produce trial panels to ascertain the optimum time for which the retarder is functional. With high alumina cements the concrete should be released from the forms and the surface washed off within 6-8 hours of pouring.

Packaging and storage:

Cicosurface Retarder is supplied in 20Ltr steel pails; All Comtech products should be stored in a dry shaded area, protected from breakage, deterioration and contamination.

Health and safety:

Cicosurface Retarder is non - hazardous. It should not be swallowed or allowed to come into contact with skin or eyes. Suitable protective goggles and gloves should be worn. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. When contact with the skin is made, wash off immediately with soap and water. If swallowed, seek medical attention immediately.

Technical Support:

Comtech. Middle East Bldg. Chemical Ind. LLC provides on-site assistance and consulting services on projects when requested. Technical data sheets on other products and guidance on their use are available on request.

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