CLF ANTICRACK

Evaporation Reducer

PRODUCT DESCRIPTION

CLF ANTICRACK protects fresh concrete from the effects of excessive moisture loss in rapid drying conditions, without increasing the bleed. It is sprayed over fresh concrete surfaces. When applied, the water-based, product forms a continuous monomolecular film over the concrete surface.

ADVANTAGES

- CLF ANTICRACK is therefore ideal in concrete that produces little or no bleed water, such as mixes with low water content or mixes containing fibres.
- This mono-molecular film lasts as long as the concrete remains plastic, despite floating and trowelling operations.
- CLF ANTICRACK will not affect the concrete colour
- The product is classified as 'harmless' and is VOC compliant.
- CLF ANTICRACK is especially useful in weather that has a low humidity and is hot and windy as well as inside heated buildings during cold weather. This is because those conditions promote the rapid evaporation of surface moisture.
- Since CLF ANTICRACK provides the concrete with adequate lubrication, it eliminates or reduces surface crusting, concrete sponginess, stickiness, concrete crazing and dusting that can cause an uneven and poor surface texture. CLF ANTICRACK assists in creating superior concrete flatwork finishes.
- CLF ANTICRACK does not affect the hydration process.
- The product enhances the durability of concrete because it helps to prevent map cracking and plastic shrinkage (where cracks can penetrate to the full depth of a concrete slab) by inhibiting the rapid loss of bleed water.
- The product eliminates the need to add extra mixing water to the concrete mix design in order to compensate for rapid evaporation during finishing.
- It also replaces the need for water spraying on the surface of the concrete in order to slow the evaporation process.
- Timing of the operations is less critical because it slows the evaporation rate down and allows the concrete to set uniformly. This increases the amount of surface area handled per concrete finisher.
- CLF ANTICRACK contains a fugitive dye as a visual aid to ensure complete and uniform application. Treated surfaces are easily distinguished from untreated surfaces – preventing potential over application. The dye disappears completely upon drying.

SPECIFICATIONS

The use of a mono-molecular film to prevent the rapid drying of fresh concrete is recommended in the following American Concrete Institute (ACI) technical documents:

- ACI 305 R: Hot weather concreting
- ACI 302.1 R: Guide for concrete floor and slab construction
- ACI 308: Standard practice for concrete curing
- ACI 345 R: Guide for concrete highway bridge deck construction

PROPERTIES

- Physical state (25°C):..... liquid
- Colour: ..... yellow - blue/green
- Specific gravity (25°C): ..... 1 (±0.02)
- Calcium Chloride:..... nil

APPLICATIONS

Use

All horizontal concrete pours where the evaporation rate may exceed the bleeding rate of concrete

- Industrial Floors
- Roads
- Bridge decks
- Slabs
- Patios
- Driveways
- Sidewalks

Dosage

- Take CLF ANTICRACK concentrate directly from the containers and dilute at the ratio of 1:9, meaning 1 part CLF ANTICRACK to 9 parts of water.
- Mix or agitate thoroughly in order to uniformly distribute the solids in the mixture.

Method Statement

- CLF ANTICRACK should be applied immediately after screeding and/or between finishing operations.
- Using a hand or power sprayer, apply CLF ANTICRACK uniformly over the surface of the plastic concrete.
- A litre of CLF ANTICRACK has a coverage rate of roughly 6 m^2.
- Under severe dry conditions, re-application may be required.
- Since CLF ANTICRACK does not retard the setting characteristics of concrete, the normal timing of finishing operations must be maintained.

Product notes

- CLF ANTICRACK is not a curing compound and cannot be used as a surface retarder or surface hardener. It must not be applied during any finishing operation. Please contact a CLF representative for more information on our surface retarders and curing compounds.
- If there is a spillage of CLF ANTICRACK on hardened concrete, wipe it immediately and then rinse the surface with water.
- If CLF ANTICRACK is allowed to dry on hardened concrete, a stain may appear. In order to remove the stain, one should place a cloth that is saturated with a household-type chlorinated bleach onto the stain. Cover the cloth in plastic. After an hour the stain should disappear. Rinse the area with water.

PACKAGING

- 25 litre Jerry Can
- 200 litre Drum

STORAGE

- If stored in its original unopened container in dry warehouse conditions, CLF ANTICRACK (undiluted) has a shelf life of 18 months.
- The product may freeze at temperatures below 5°C.
- If the CLF ANTICRACK freezes, it will not go back into a solution and cannot be used again.
- If CLF ANTICRACK is diluted and stored for an extended period of time, then the product should be agitated before it is used.

HEALTH AND SAFETY

This product is classified as harmless. CLF will provide on-site assistance when requested. Refer to the material safety data sheet.

CAUTION: **May contain flammable solvents.** Keep away from sparks and open flames. In confined areas workmen must wear fresh airline respirators. Hypersensitive persons should wear gloves or use protective cream. All electronic equipment and installations should be made and grounded in accordance with the national electrical code. In areas where explosion hazards exist, workmen should be required to use nonferrous tools and to wear conductive and nonsparking shoes.

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