

Techno Cure WB

Water based concrete curing compound

Uses

- As a spray applied membrane to retain moisture in concrete for effective curing.
- Suitable for all general concreting applications. Of particular benefit for large area concrete surfaces, such as airport runways, roads and bridgeworks.

Advantages

- Improved curing of concrete enhances hydration process and provides a more durable concrete.
- Control of moisture loss improves surface quality, reducing permeability, minimizing surface cracking and shrinkage.
- Fugitive color provides visual guide during application.
- Also available in white pigmented grade.
- Water based, therefore, non-flammable.
- Spray application reduces labour costs, therefore eliminates the need for alternative curing systems.

Standards compliance

Techno Cure WB gives 75% or greater curing efficiency when tested to BS 7542 and complies with BS 8110 Part 1, clause 6.6.3(c), ASTM C309 and AASHTO M148 as Type 1D.

Description

Techno Cure WB water based concrete curing compound is based on a low viscosity wax emulsion. It is supplied as a white emulsion which forms a clear film on drying. When first applied to a fresh cementations surface the emulsion breaks to form a continuous, non-penetrating white coating. This dries to form a continuous clear film which provides a barrier to moisture loss, ensuring more efficient cement hydration, improved durability and reduced shrinkage.

Techno Cure WB is also available in a white pigmented version. It contains a white pigment based on titanium dioxide to meet specifications requiring such pigmentation for reduction of solar temperature gain.

Instructions for use

Application

Techno Cure WB white should be stirred before use to ensure even dispersal of the pigment. Techno Cure WB should be spray applied to the surface of fresh concrete.

Modern Technologies for Construction Chemicals

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Application should begin as soon as the concrete is free from surface water. Do not apply if bleed water is forming, or is present on the concrete surface. The spray nozzle should be held approximately 450 mm from the concrete surface and passed back and forth to ensure complete coverage.

The fugitive white color during application provides a guide to the area covered. Pump pressure should be maintained to give an even, fine spray. After spraying, no further application of water or other material is necessary to ensure continued curing. The concrete surface should not be disturbed until it has sufficient strength to bear surface loads. The applied film should not be trafficked until it is fully dry, care should also be taken to ensure that the film is not subsequently broken.

Techno Cure WB may be applied to the surface of newly hardened concrete immediately after demoulding. In such cases the concrete surface must be damp and not dry. Dry surfaces may prevent correct film formation and cause absorption of the Techno Cure WB which may lead to staining and difficulty in later removal.

Equipment

Spray equipment or motorized sprayers which produce a fine mist without damaging the emulsion may be used for Techno Cure WB. The suitability of equipment should be assessed by an application trial.

Equipment cleaning

Spray equipment should be cleaned immediately after use by flushing through with water. If spray nozzles become blocked with wax particles these may be easily cleared with white spirit.

Over coating and removal

Techno Cure WB must be removed from concrete surfaces prior to the application of a coating, this is necessary to ensure adequate bond of the coating material to the concrete substrate. Techno Cure WB will slowly be removed by physical abrasion in normal trafficking conditions or exposure to UV light. To ensure complete removal use high pressure steam, water jet or light sand blasting.
Minimum application temperature 5°C.

Technical support

M. T. C. provides a technical advisory service for on-site assistance and advice on admixture selection, evaluation trials and dispensing equipment. Technical data and guidance can be provided for admixtures and other products for use

with fresh and hardened concrete.

Estimating

Supply

Techno Cure WB : 200 liter drums

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Coverage

Techno Cure WB : 3.5 to 5.0 m²/liter

Storage

Techno Cure WB has a minimum shelf life of 12 months, provided the temperature is kept within the range of 4°C to 35°C. Containers should be kept sealed and airtight to prevent loss of moisture by evaporation

Precautions

Health and safety

Techno Cure WB does not fall into the hazard classifications of current regulations. However, it should not be swallowed, allowed to come into contact with skin and eyes either in bulk or spray form. 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.

Fire

Techno Cure WB is water based and non-flammable.

Cleaning and disposal

Spillages of Techno Cure WB should be absorbed onto sand, earth or vermiculite and transferred to suitable containers. Remnants should be hosed down with large quantities of water.

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