

Expancure* WB309



CONSTRUCTION CHEMISTRY

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, minimising surface cracking and shrinkage.
- Fugitive colour 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

Expancure* WB309 conforms with ASTM C309 as a Type 1 Class D & Type 2 Class B

Description

Expancure* WB309 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 cementitious 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.

Expancure* WB309 is available in a clear and white pigmented version.

White contains a white pigment based on titanium dioxide to meet specifications requiring such pigmentation for reduction of solar temperature gain.

Technical support

Expanchem Fospak provides a technical advisory service for on-site assistance and advice on admixture selection, evaluation trials and dispensing equipment.

Instruction for use

Application

Expancure* WB309 white should be stirred before use to ensure even dispersal of the pigment. Expancure* WB309 should be spray applied to the surface of fresh concrete. 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 colour 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. Expancure* WB309 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 Expancure* WB309 which may lead to staining and difficulty in later removal.

Equipment

Spray equipment such as knapsack or motorized sprayers which produce a fine mist without damaging the emulsion may be used for Expancure* WB309. 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.

Overcoating and removal

Expancure* WB309 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. Expancure* WB309 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.



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Limitation

Expancure* WB309 should not be continuously recirculated in high shear pumps in concrete train or similar applications, as this may cause a breakdown of the emulsion before spraying. If continuous recirculation is necessary, the sprayer should be fitted with a low shear diaphragm pump.

Minimum application temperature 5°C.

Properties

Appearance : White emulsion

Clear : Clear film on drying

White pigment : White film on drying

Specific gravity : 0.985 Clear & 1.02 White at 20 °C

Packaging - Coverage

Expancure* WB309 : 210 Ltr. Drum

Coverage : 4 – 5 m² / Ltr.

Storage

Expancure* WB309 has a minimum shelf life of 12 months provided the temperature is kept within the range of 2°C to 50°C. Should the temperature of the product fall outside this range then contact your local Expanchem Fospak office for advice.

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 consult the Material Safety Data Sheet available for this product.

Fire

Expancure* WB309 is water based and non-flammable.

Cleaning and disposal

Spillages of Expancure* WB309 should be absorbed onto sand, earth or vermiculite and transferred to suitable containers. Remnants should be hosed down with large quantities of water.

The disposal of excess or waste material should be carried out in accordance with local legislation under the guidance of the local waste regulatory authority.

Precautions

Health and safety

Expancure* WB309 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.

* Denotes the trademark registered.

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Important note

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