



constructive solutions

Concure 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 and of particular benefit for large area concrete surfaces, such as airport runways, roads and bridgeworks.

Advantages

- Improved curing of concrete enhances cement hydration and provides a more durable concrete.
- Control of moisture loss improves surface quality, reducing permeability, producing a hard wearing, dust free surface and minimising potential for 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 and eliminates the need for alternative curing systems.

Standards compliance

Concure 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 C-309, AASHTO M148 as Type 1D.

Description

Concure 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 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

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

Technical support

Fosroc 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.

Instructions for use

Application

Minimum application temperature: 5°C

Concure WB white should be stirred before use to ensure even dispersion of the pigment.

Concure WB should be spray applied to the surface of fresh concrete. Application should begin immediately the concrete is free from surface water. Do not apply if bleed water is forming or 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 walked on before it is fully dry and care should be taken to ensure that the film is not broken.

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

Coverage rate

The recommended coverage rate is between 3.5 and 5.0 m²/litre (0.200 to 0.285 litres/m²). Coverage rates outside this recommended range may be used if necessary and suitable to meet specific requirements. Contact local Fosroc office or representative for advance in such cases.

Equipment

Spray equipment producing a fine mist without damaging the emulsion may be used for Concure WB, such as knapsack or motorised sprayers. The suitability of equipment should be ensured 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 Solvent 103 or white spirit.

Concure WB

Over-coating and removal

Concure WB must be removed from a concrete surface before application of a subsequent coating to ensure a good bond of the over coated material to the concrete. Concure WB will be slowly removed by physical abrasion in normal trafficking or exposure to UV light. To ensure complete removal use high pressure steam, water jet or light sand blasting.

Limitations

Concure WB should not be continuously re-circulated in high shear pumps in concrete train or similar applications as this may cause a breakdown of the emulsion before spraying. If continuous re-circulation is necessary, the sprayer should be fitted with a low shear diaphragm pump. Specifications calling for resin or solvent based curing membranes can be met using Concure 90.

Estimating - packaging

Concure WB is available in drum supply. Details of specific packaging volumes are available on request.

UN packaging regulations

To comply with current regulations, all products of a hazardous nature that are involved in a sea crossing as part of the delivery requirements must be packed in United Nations approved receptacles.

When a known sea crossing is involved, whether local to the United Kingdom or for export worldwide, Fosroc will supply in the correct UN packaging. Where Fosroc are only requested to deliver within the United Kingdom mainland, but the purchaser intends to ship on, it is incumbent on the purchaser to specify that UN packaging is required at the time of placing the order. Otherwise, once delivery is received, the responsibility is that of the purchaser.

The use of UN packaging may affect the selling price of products. Refer to the local Fosroc office or representative.

Storage

Concure WB has a minimum shelf life of 12 months, 6 months for pigmented grades, provided the temperature is kept within the range of 4°C to 35°C. Freezing and prolonged exposure to heat or direct sunlight should be avoided. Should the temperature of the product fall outside this range then the Fosroc Technical Service Department should be contacted for advice.

Containers should be kept sealed and airtight to prevent loss of moisture by evaporation

Precautions

Health and safety

Concure WB does not fall into the hazard classifications of current regulations (see notes 1 and 2 below). However, it should not be swallowed or 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.

For further information consult the Material Safety Data sheet available for this product.

Fire

Concure WB is water based and non-flammable.

Cleaning and disposal

Spillages of Concure WB should be absorbed onto sand, earth or vermiculate 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.

Note 1 : CPL Regulations 1984 Supply-Schedule 1.

Note 2 : HSE Publication Guidance Note EH40.



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Important note:

Fosroc products are guaranteed against defective materials and manufacture and are sold subject to its standard Conditions for the Supply of Goods and Services, copies of which may be obtained on request. Whilst Fosroc endeavours to ensure that any advice, recommendation, specification of information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products, whether or not in accordance with any advice, specification, recommendation of information given by it.

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