



# Concure WB309\*

## 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.
- Water based, therefore, non-flammable.
- Spray application reduces labour costs, therefore eliminates the need for alternative curing systems.

### Standards compliance

Concure WB309 complies with ASTM C309 as Type 1D.

### Description

Concure WB309 is a water based concrete curing compound is based on a low viscosity wax emulsion which incorporates a special alkali reactive emulsion breaking system.

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.

### Instructions for use

#### Application

**Minimum application temperature: 5deg C.**

Concure 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. 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.

Concure 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 Concure WB309 which may lead to staining and difficulty in later removal.

#### Equipment

Spray equipment such as knapsack or motorised sprayers which produce a fine mist without damaging the emulsion may be used for Concure 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

Concure 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. Concure 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.

# Concure WB309\*

## Limitations

- Concure 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.

## 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.

## Estimating

### Supply

**Concure WB309** : 200 litre drums

### Coverage

**Concure WB309** : 4 to 5 m<sup>2</sup>/litre

## Storage

Concure WB309 has a minimum shelf life of 12 months, 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 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 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 WB309 is water based and non-flammable.

### Cleaning and disposal

Spillages of Concure 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.

\* Denotes the trademark of Fosroc International Limited

† See separate data sheet



Al Gurg Fosroc  
LLC

Post Box 657, Dubai  
United Arab Emirates

[www.fosroc.com](http://www.fosroc.com)

## 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 Service. All Fosroc datasheets are updated on a regular basis. It is the user's responsibility to obtain the recent version. Refer to [www.fosroc.com](http://www.fosroc.com)

### Head Office

**telephone:** (+9714) 2858606

**fax:** (+9714) 2859649

**email:** [agf@fosroc.com](mailto:agf@fosroc.com)

### Regional offices

Dubai, Al Gurg Fosroc  
Abu Dhabi, Al Gurg Fosroc  
Bahrain, YBA Kanoo  
Kuwait, Boodai  
Oman, Al Amana  
Qatar, Tadmur

**telephone:** 285 8787  
**telephone:** 673 1779  
**telephone:** 17735454  
**telephone:** 4817618  
**telephone:** 771 5080  
**telephone:** 413628

**fax:** 285 2023  
**fax:** 673 1449  
**fax:** 17732828  
**fax:** 4832124  
**fax:** 771 7554  
**fax:** 440812

**email:** [dubai@fosroc.com](mailto:dubai@fosroc.com)  
**email:** [abudhabi@fosroc.com](mailto:abudhabi@fosroc.com)  
**email:** [bahrain@fosroc.com](mailto:bahrain@fosroc.com)  
**email:** [kuwait@fosroc.com](mailto:kuwait@fosroc.com)  
**email:** [oman@fosroc.com](mailto:oman@fosroc.com)  
**email:** [qatar@fosroc.com](mailto:qatar@fosroc.com)



UAE/0596/06/A