



constructive solutions

# Concure 90

## High efficiency 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.
- Light reflective grades minimise solar temperature gain.
- Spray application reduces labour costs and eliminates the need for alternative curing systems.

### Standard compliance

All grades of Concure 90 give 90% or greater curing efficiency when tested to BS 7542 and comply with BS 8110 Part 1, Clause 6.6.3 (c), ASTM C-309 and AASHTO M148. Concure 90 Aluminised complies with the DTp Specification for Highway Works, Clause 1027.

Concure 90 Clear and Concure 90 Aluminised comply with the requirements of the United Kingdom Water Byelaws Scheme and are listed in the Water Fittings and Materials Directory as suitable for use in contact with potable water.

### Description

Concure 90 concrete curing compound is resin based and is supplied in various pigmented grades.

- Clear:** Straw liquid drying to a clear film  
**Green:** As clear grade but with green fugitive dye  
**White:** White liquid drying to a white film  
**Aluminised:** Silver liquid drying to silver film

When first applied to a fresh cementitious surface the product forms a continuous, non-penetrating coating. This coating dries to form a continuous film which provides a barrier to moisture loss ensuring more efficient cement hydration, improved durability and reduced shrinkage.

The white and aluminised grades contain pigments based on titanium dioxide and aluminium flake respectively 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

Pigmented grades should be stirred before use to ensure even dispersion of pigment.

Concure 90 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 surfaces.

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 walked on before it is fully dry and care should be taken to ensure that the film is not broken.

Concure 90 may also be applied to the surface of newly hardened concrete immediately after de-moulding. In such cases the concrete surface should be sprayed with water to saturate it prior to the application of Concure 90. Dry surfaces may prevent correct film formation and cause absorption of the Concure 90 which may lead to staining and difficulty in later removal.

#### Coverage rate

The recommended coverage rate is between 3.5 and 5.0 m<sup>2</sup> per litre (0.200 to 0.285 litre per m<sup>2</sup>). Coverage rates outside this recommended range may be used if necessary and suitable to meet specific requirements. Contact local Fosroc office or representative for advice in such cases.

#### Equipment

Spray equipment producing a fine mist may be used for Concure 90, 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 Fosroc Solvent 103.

# Concure 90

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## Over-coating and removal

Concure 90 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 90 will be slowly removed by physical abrasion in normal trafficking and exposure. To ensure complete removal use high-pressure water jet or light sand blasting. Non-pigmented grades of Concure 90 will also be slowly broken down by exposure to UV light.

## Limitations

Specifications calling for wax or water based curing membranes can be met using Concure WB.

## Estimating - packaging

Concur 90 is available in drum supply. Details of specific packaging volumes are available on request.

## UN packaging regulations

All products classified as 'hazardous' which are to be exported overseas, must conform to the current UN regulations for packaging and documentation. Standard packaging for UK requirements may not conform to UN regulations.

Fosroc can supply in the correct export packaging and with the required documentation for surface transport. Where Fosroc are requested to deliver within the UK and the Purchaser intends to ship onwards, it is incumbent upon the Purchaser to specify that UN packaging and documentation is required at the time of quotation and placing of an order. Otherwise, once materials are received, the responsibility rests solely with the Purchaser.

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

## Storage

Concur 90 has a minimum shelf life of 12 months, 6 months for pigmented grades, when stored in the original unopened containers under normal warehouse conditions.

## Precautions

### Health and safety

Concur 90 should not be swallowed or allowed to come into contact with skin and eyes. Avoid inhalation of vapours and ensure adequate ventilation.

Suitable protective gloves and goggles should be worn. Some people are sensitive to resins and solvents. Barrier creams such as Kerodex Anti-solvent or Rozalex Anti-pint provide additional skin protection.

Should accidental skin contact occur, remove immediately with a resin removing cream such as Kerocleanse Standard Grade Skin Cleanser or Rozaklens Industrial Skin Cleanser, followed by washing with soap and water - **do not** use Solvent.

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

Concur 90 is flammable. Do not expose to naked flames or other sources of ignition.

**Flash points** - 40°C

### Cleaning and disposal

Spillages of Concur 90 should be absorbed onto sand, earth or vermiculite and transferred to suitable containers.

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.



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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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