



constructive solutions

Concure 90*

Highly 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 minimizing potential surface cracking and shrinkage
- Light reflective grades minimize solar temperature gain
- Spray application reduces labour costs and eliminates the need for alternative curing systems

Standards 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 C309 and ASHTO M148. Concure 90 aluminized complies with the DTp specification for Highway Works, clause 1027.

Concure 90 clear and Concure 90 aluminized 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

White: White liquid drying to a white film

Aluminized: Silver liquid drying to a silver film

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

The white and aluminized grades contain pigments based on titanium dioxide and aluminum 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 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 walked on before it is fully dry and care should not 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 demoulding. 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 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 advice in such cases.

Equipment

Spray equipment producing a fine mist may be used for Concure 90, such as knapsack or motorized sprayers. The suitability of equipment should be ensured by application trials.

Equipment cleaning

Spray equipment should be cleaned immediately after use by flushing through with Fosroc Solvent 102*†.

Concure 90*

Overcoating 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.

Cleaning and disposal

Spillages of Concure 90 should be absorbed onto sand, earth or vermiculate 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 waste regulatory authority.

Limitations

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

Estimating

Supply

Concure 90 : 20 & 210 litre drums

Storage

Concure 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

Concure 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 Antisolvent or Rozalex Antipaint 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

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

Flash point

Concure 90 : 40°C

* Denotes the trademark of Fosroc International Ltd.

↑ See separate data sheet



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.

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