

Concure 90

High quality, resin based, concrete curing compound

Uses

Provides a high efficiency, spray-applied curing compound, to retain water within concrete for effective curing. It is suitable for all common forms of concreting, and is of particular benefit for large concrete areas, including :

- Car park decks and ramps.
- Taxiways, parking, aprons.
- Airport runways and hardstanding areas.
- Concrete tanks and reservoirs.
- Warehouses and unloading bays.
- Bridges
- Piers, jetties and harbours.

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.
- Cost effective - Light reflective grades minimise solar temperature gain.
- Economic - Spray application reduces labour costs and eliminates the need for alternative curing

Standards Compliance

All grades of Concure 90 give 90% or greater curing efficiency when tested to BS 7542 and comply with BS8110 Part 1, clause 6.6.3(c), ASTM C309 and AASHTO M148.

Concure 90 Aluminised, complies with DTp specification for Highway Works, Cl. 1027.

Specification

The high efficiency, curing compound shall be Concure 90, a low viscosity, resin emulsion supplied by Fosroc.

The curing compound shall have a curing efficiency of at least 90% in accordance with BS7542; shall comply with BS 8110; Part 1, clause 6.6.3(c), ASTM C309 and AASHTO M148.

Description

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

Clear - straw coloured liquid, drying to a clear film

Green - As clear grade but with green fugitive dye

White - Silver liquid drying to a 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 offers a comprehensive technical support service to specifiers, end users and contractors. It is also able to offer on-site technical and specification assistance in locations all over the world

Properties

Form	:	Liquid - white or clear
Curing efficiency	:	90% (BS 7542)

Instructions for Use

Pre-application

Concure 90 pigmented grades should be gently stirred immediately before use, to ensure even dispersal of the pigment. Application should not begin until the concrete is free from surface water, and should not commence at all if bleed water is apparent on the concrete surface.

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Application

Concure 90 should be applied by spray, with the spray nozzle being held approximately 450mm from the concrete surface. Application should pass back and forth to ensure complete coverage, and pump pressure 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 fully dry, and care should be taken to ensure that the film is not broken.

Concure 90 may also be applied to newly hardened concrete immediately after demoulding, which should be damp, **not** dry. Surfaces which are dry will lead to problematic absorption of the membrane, preventing proper film formation and causing removal difficulties at a later date.

Equipment

Motorised or knapsack spray equipment, which produces a fine spray, is recommended for use with Concure 90.

Cleaning

Spray equipment should be cleaned immediately after use by flushing through with water. Any residual traces of resin which are left in the nozzle may be cleaned with Fosroc Solvent 102.

Overcoating and removal

Concure 90 must be removed from concrete substrates before subsequent coating works commence, to promote proper bond between the concrete and the applied coating. Although the membrane will be slowly removed by normal trafficking and UV exposure, this is likely to be inconsistent. To ensure complete removal use high pressure steam or water blasting, or light sand blasting.

Limitations

- Concure 90 should only be re-circulated using a low shear diaphragm pump.
- Concure 90 should not be applied onto dry surfaces, which may lead to absorption and staining which will be difficult to remove at a later date.
- Any concrete surfaces which receive treatment with Concure 90 should not be disturbed until the concrete has gained sufficient strength to bear surface loading.

Estimating

Supply

Concure 90	:	210 litre drums
Fosroc Solvent 102	:	5 litre packs

Coverage

Coverage figures quoted for Concure 90 are indicative; and based upon application to fresh or damp concrete at the appropriate time. Care should be taken to ensure that the concrete is indeed ready to accept the curing membrane. Application rates outside the range given below may be used if necessary, but it is recommended to first contact your local Fosroc office.

Concure 90	:	4 to 8m ² / litre
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Shelf Life

When stored in warehouse conditions below 35°C, Concure 90 has a minimum shelf life of 12 months for the clear version, and 6 months for the pigmented. Freezing and exposure to heat and/or direct sunlight should be avoided. Containers should be kept sealed and airtight to prevent any reduction in shelf life.



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Precautions

Health and Safety

Concure 90 does not fall into the hazardous classifications of current regulations. However, it should not be swallowed or allowed to come into contact with skin or eyes, in either spray or bulk form. Suitable protective gloves and goggles should be worn at all times. 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, please consult the Material Safety Data Sheet for this product.

Fire

Concure 90 is non-flammable.

Cleaning and Disposal

Spillages of Concure 90 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.

Additional Information

Fosroc manufactures a wide range of complementary products which include :

- concrete admixtures and cement grinding aids
- waterproofing membranes & waterstops
- joint sealants & filler boards
- cementitious & epoxy grouts
- specialised flooring materials

Fosroc additionally offers a comprehensive package of products specifically designed for the repair and refurbishment of damaged concrete. Fosroc's 'Systematic Approach' to concrete repair features the following :

- hand-placed repair mortars
- spray grade repair mortars
- fluid micro-concretes
- chemically resistant epoxy mortars
- anti-carbonation/anti-chloride protective coatings
- chemical and abrasion resistant coatings

For further information on any of the above, please consult your local Fosroc office - as below.



Fosroc Sdn. Bhd.

No 8 Jalan Trompet, 33/8
Seksyen 33, 40400 Shah Alam
Selangor, Malaysia.

Branch Office:

29, Jalan Zainal Abidin,
10400 Penang, Malaysia.

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 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.

telephone:
+60 3 5191 5660

+60 4 2287 464

fax:
+60 3 5191 6960

+60 4 2292 661

email:
malaysia@fosroc.com

