

Fosroc Concure RB90



constructive solutions

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.
- Airport runways and hardstanding areas.
- Concrete tanks and reservoirs.
- Warehouses and unloading bays.
- Floor slabs and columns.
- Piers, jetties and harbours.

Advantages

- Enhanced concrete durability - improved & controlled curing efficiency of 90% results in better cement hydration.
- Lower add-on cost due to much improved surface quality, minimising potential for shrinkage and crack repairs.
- Cost effective - specifically formulated for low cost spray application.
- Environmentally friendly - non hazardous resin, can be discharged directly on site, water can be used for cleaning.
- Versatile - suitable for confined spaces, available in white-pigmented version for simple, visual application check.
- White-pigmented version reduces solar temperature gain.

Standards compliance

Classified to ASTM C309 : Type 1 or 2 Classes A and B
BS 7542 : Minimum curing efficiency of 90%.
Complies with BS 8110; Part 1, clause 6.6.3(c)

Description

Concure RB90 is a low viscosity, resin emulsion, curing compound. It is supplied as a single component liquid (white or clear) which is ready for immediate on-site application.

Concure RB90 is applied, by spray, to fresh cementitious surfaces at a coverage rate of 3.5 to 5.0 m² per litre. It creates a continuous film-forming, moisture barrier; which ensures optimum cement hydration, improved concrete durability and reduced shrinkage.

Specification

The high efficiency, curing compound shall be Concure RB90, 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).

Properties

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

Instructions for use

Pre-application

Concure RB90 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.

Application

Concure RB90 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.

When first applied, the product forms a non-penetrating white coating across the concrete surface. The coating cures to form a white or clear film - according to which version of Concure RB90 is used - which then provides the moisture barrier to enable effective, concrete curing.

The applied film should not be trafficked until fully dry, and care should be taken to ensure that the film is not broken.

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Concure RB90 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 RB90.

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 RB90 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.

Limitations

- Concure RB90 should only be re-circulated using a low shear diaphragm pump.
- Concure RB90 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 RB90 should not be disturbed until the concrete has gained sufficient strength to bear surface loading.
- Concure RB90 is not an aesthetic coating. It should therefore be removed from the concrete after 28 days.
- Concure RB90 once applied, changes its colour and turns to yellow, brown or darker shades under the influence of sunlight.

Technical support

Fosroc offers a comprehensive technical support service to specifiers, end users and contractors. It is also able to offer on-site technical assistance, an AutoCAD facility and dedicated specification assistance in locations all over the world.

Estimating

Supply

Concure RB90	:	200 litre packs
Fosroc Solvent 102	:	5 litre packs

Coverage

Coverage figures quoted for Concure RB90 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 RB90	:	3.5 to 5.0 m ² /litre or 0.2 to 0.285 litres/m ²
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Storage

When stored in warehouse conditions below 35°C, Concure RB90 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.

Precautions

Health and safety

Concure RB90 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 RB90 is non-flammable.

Cleaning and disposal

Spillages of Concure RB90 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.

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Additional Information

Fosroc manufactures a wide range of complementary products which include :

- 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.

* Denotes the trademark of Fosroc International Limited

† See separate data sheet



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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 Service. **All Fosroc datasheets are updated on a regular basis. It is the user's responsibility to obtain the latest version.**

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