

Concure CR



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1/1997

Chlorinated rubber based concrete curing compound

Uses

New Concrete

Mainly used on freshly laid concrete floors. Also used for curing vertical concrete areas immediately after the stripping of forms to assist strength development, improve chemical resistance, etc.

Old Concrete

Used to reduce surface dusting of existing concrete, to improve protection against chemical attack, and to increase resistance to oils, grease and staining of concrete surfaces.

Typical applications include coating industrial floors subject to light traffic conditions, internal concrete walls, etc., where free from exposure to non-compatible chemicals.

Advantages

- Enables concrete to hydrate more efficiently
- Increases concrete strength and dusting resistance
- Eliminates the need for damp hessian, sand or polythene
- Rapid film formation
- Odourless when dry
- Facilitates job clean up and maintenance of the coated surface

Standards compliance

Concure CR conforms to A.S.T.M. C.309. Test certificates are available on request.

Description

Concure CR consists of a processed blend of chlorinated rubber and modifying agents in Xylene to give a stable, transparent, quick drying, mobile liquid. Concure CR cures, seals and hardens the surface of new concrete, providing increased strength and durability and improved resistance to chemicals and surface dusting.

Technical support

Parbury Technologies offers a comprehensive range of high performance, high quality repair, maintenance and construction products. In addition, Parbury Technologies offers technical support to specifiers, end-users and contractors, as well as on-site technical assistance.

Design criteria

The coating should be applied in a single coat to achieve a total dry film thickness of not less than 35 microns. To achieve the correct curing properties, Concure CR must be applied on to the substrate at the coverage rates recommended.

Properties

Data quoted typical for this product, but does not constitute a specification.

Volume solids:	17.5%
Specific gravity:	0.94
Drying time:	60 mins. on new concrete 30 mins. on old concrete
Colour:	Clear, light honey coloured

Specification clauses

Concrete curing compound

All designated areas are to have a liquid curing compound applied to the freshly finished concrete. The curing compound will be based on chlorinated rubber, comply with ASTM C309 and have a volume solids content of not less than 17.5%. Such a material is Concure CR as manufactured by Fosroc. The curing compound is to be applied in accordance with the manufacturers application instructions.

Application instructions

New Concrete

Concure CR should be evenly sprayed over the freshly laid concrete as soon as possible after final trowelling. Ideally Concure CR should be applied as soon as the surface bleed water has evaporated.

Old Concrete

All surfaces must be thoroughly clean, oil free, structurally sound and dry. Laitance must be first removed from the concrete to be coated.

Apply not less than two coats of Concure CR by brush or roller. Allow at least six hours between coatings and ensure that the first coat is completely dry before applying the next coat. For rough or coarse surfaces three coats may be required.



In both cases, apply Concure CR at a coverage rate of not greater than 5m² per litre per coat.

Cleaning

Concure CR should be removed from tools and equipment with Fosroc Solvent 10.

Limitations

Certain adhesives for vinyl tiles, or other types of resilient flooring, and paints of an approved grade may be applied to concrete coated with Concure CR. It is important however that the concrete should be thoroughly cured prior to such application, and that a test area has been completed for approval.

Cement based renders and toppings should not be applied over Concure CR. First remove the Concure CR by sand blasting or scabbling to provide a mechanical key.

The life of Concure CR will depend on traffic conditions to which it has been subjected; therefore apply reviving coats as required.

The bond of Concure CR is likely to fail if the product is applied to concrete or masonry substrates subject to back water pressure, and/or where extraneous salt particles are carried from the substrate to the interface by vapour or condensation.

Substrates to which Concure CR is not resistant include oxidising agents, such as sodium hypochlorite, bromine water and sulphur dioxide. Concure CR is also not resistant to concentrated acetic acid, concentrated phosphoric acid, concentrated nitric acid, chromic acid, concentrated ammonia, animal fats and oils, synthetic oils such as brake fluid and some transmission fluids, vegetable oils and higher fatty acids such as oleic acid plus the following solvent types: aromatic hydrocarbons, esters, ketones and chlorinated solvents.

A clear appearance with slight yellow cast is obtained.

Concure CR will yellow when subject to ultra-violet radiation from sunlight. When a non-yellowing clear floor coating is required use Nitoflor FC120.

Estimating

Supply

Concure CR:	20 and 200 litre drums
Fosroc Solvent 10:	4 and 20 litre drums

Coverage

Concure CR:	5 m ² per litre
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The coverage figures given are theoretical - due to wastage factors and the variety and nature of possible substrates, practical coverage figures will be reduced.

Storage

Shelf life

All products have a shelf life of 12 months if kept in a dry store in the original, unopened packs.

Storage conditions

Store in cool, dry conditions, away from sources of heat and naked flames, in the original, unopened packs. If stored at high temperatures and/or high humidity conditions the shelf life may be reduced.

Precautions

Health and safety

Concure CR and Fosroc Solvent 10 should not come in contact with the skin and eyes, or be swallowed. Ensure adequate ventilation and avoid inhalation of vapours. Some people are sensitive to resins, hardeners and solvents. Wear suitable protective clothing, gloves and eye protection. If working in confined areas, suitable respiratory protective equipment must be used. The use of barrier creams provide additional skin protection.

If swallowed, do NOT induce vomiting - give a glass of water. If in eyes, hold eyes open, flush with water for at least 15 minutes. If skin contact occurs, remove contaminated clothing and wash skin thoroughly. Do not use solvents on skin. If poisoning occurs, contact a doctor or Poisons Information Centre.

Fire

Concure CR and Fosroc Solvent 10 are flammable. Keep away from sources of ignition. No smoking. In the event of fire, extinguish with CO₂ or foam. Do not use a water jet.