

# Concure 1315

Eco-friendly, acrylic resin based, clear curing compound, sealer and dust proofer.

## Uses

Provides a clear curing, sealing and dustproofing compound, which can be used in a wide range of applications:

- High rise construction to eliminate water curing
- Floors, warehouses, slabs and columns
- Dustproofing concrete walls and floors
- Clear sealer for concrete
- Self-curing, primer system to subsequent coverings

## Advantages

- Eco-friendly - water based, free from solvent, oils waxes, chlorinated or saponifiable materials
- Excellent moisture retention for freshly placed concrete, resulting in minimising shrinkage cracks
- Suitability for foot traffic
- UV, chemical and abrasion resistant
- Versatile - can be applied equally well to freshly placed or existing concrete
- Cost effective - can be over-coated with water based and solvent based acrylic coatings, epoxy coatings, polyurethane coatings etc.
- Also available in pigmented form, which dissipate after few days upon application.

## Standards compliance

Complies to ASTM C1315 Type 1, class A.

## Description

Concure 1315 is an acrylic polymer based non-degrading, single component, clear curing compound. It is also suitable for use as a sealer and dust proofer for floors and walls.

Concure 1315 is resistant to UV, abrasion and a range of chemicals.

Concure 1315 is applied by spray at a coverage rate of 5-10m<sup>2</sup>/litre..

## Specification

Where indicated in the contract documents, the water based curing compound with sealing and dustproofing properties will be Concure 1315 supplied by Fosroc.

### Properties

Solids content (ASTM D1644)	: 30 ± 3%
Moisture retention (ASTM C156)	: 0.37kg/m <sup>2</sup>
Drying time (ASTM C135, M 8.3)	: < 4hrs @ 23°C
UV Resistance (ASTM G53)	: Resistant - no yellowing, chalking
Adhesion of tile cement (ASTM C1315/ASTM D4541)	: 1.2 N/mm <sup>2</sup>

### Chemical resistance (ASTM D1308 - spot testing, 48hrs)

#### Acids (m/v)

Lactic acid 20%	: Excellent
Acetic acid 20%	: Excellent
Nitric acid 5%	: Excellent
Sulphuric acid 25%	: Excellent
Hydrochloric acid 10%	: Excellent

#### Solvents & organics

Ethylene glycol 40%	: Excellent
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#### Aqueous solutions

Sodium Hydroxide 10%	: Excellent
Copper Sulphate 25%	: Excellent
Zinc Sulphate 25%	: Excellent
Magnesium Sulphate 25%	: Excellent
Tap water	: Excellent
Sea water	: Excellent
Ground water	: Excellent
High sulphate water	: Excellent
Distilled water	: Excellent
Alkaline detergent solution	: Excellent

#### Dairy/food products

Milk	: Excellent
Buttermilk	: Excellent
Yoghurt	: Excellent
Cheese	: Excellent
Fruit juices	: Excellent

For resistance to other chemicals, consult the local Fosroc representative.

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## Instructions for use

### Preparation

Concure 1315 should be gently stirred immediately prior to use to ensure uniformity of the material as applied.

#### New concrete

Application to freshly placed concrete should not begin until the surface is free from water, and should not commence at all if bleed water is apparent. Concure 1315 should be applied as soon as practically possible after removal of shuttering, and whilst the concrete surface is still damp. However, any traces of laitance, grout runs or loose material should be removed.

### Application

Concure 1315 should be applied uniformly by brush, roller or spray, with no overlap of applications. Under standard site conditions, a single coat of Concure 1315 applied at a uniform rate of 7 to 10 m<sup>2</sup> per litre. Extra porous substrates will necessitate application of Concure 1315 at a rate of 5 - 10 m<sup>2</sup> per litre. In case of sealing and dustproofing application, 2 coats at the above range must be applied. The second coat should be applied at coverage of 10 - 15m<sup>2</sup> per litre.

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

#### Spray equipment

Motorised or knapsack spray equipment, which produces a fine spray, is recommended for use with Concure 1315.

### 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 warm water.

### Subsequent finishes

The resin used in Concure 1315 allows direct application of many floor coverings and paint systems, as given typically below:

- Water based emulsion paints containing PVA, PVC, acrylic co-polymers.
- Bituminous emulsions and solutions
- Thin section polymer modified cement systems
- Epoxy resin coatings which do not rely on penetration for substrate bond
- Polyurethane coating
- Water and solvent based acrylic coatings

## Estimating

### Supply

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Concure 1315 : 5, 20 and 200 litre drums.

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### Coverage

Coverage figures quoted for Concure 1315 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.

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Concure 1315 : 5 to 10 m<sup>2</sup>/litre

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### Storage

When stored in warehouse conditions below 35°C, Concure 1315 has a minimum shelf life of 12 months.

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.

### Limitations

- Concure 1315 should only be applied within the temperature range of >5°C and <50°C.
- Any concrete surfaces which receive treatment with Concure 1315 should not be disturbed until the concrete has gained sufficient strength to bear surface loading.
- Concure 1315 should not be exposed to moving water, or rain, during application or before it has become tack free.
- Concure 1315 has been tested for bond to subsequent finishes and found to perform satisfactorily. However, many variations of each individual type of finish exist and it is not possible to test each and every one. It is therefore recommended that an onsite bond test is carried out to determine absolute suitability
- Not recommended for areas intended for heavy traffic or immersed conditions.

## 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.



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## Precautions

### Health and safety

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.

Further information; please consult the relevant Material Safety Data Sheet.

### Fire

Concure 1315 is non-flammable.

### Flash points

Concure 1315 : 102°C.

### Cleaning and disposal

Spillage of Concure 1315 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:

- 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 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.

## Reason to use Polymer based curing compound

Polymer curing compounds are ultimately more efficient and cost effective than water because they are a one time, one coat application.

The alternative, with water curing, is to constantly monitor the concrete surface and replenish with water as and when necessary. During the summer months this can easily become a full time occupation - right through the night - and is very difficult to maintain on vertical or inclined elements.

In contrast, polymer compounds are practical, very easy to apply and produce a constant, controlled rate of cure, which will underwrite the future durability of the concrete.

- More efficient cement hydration - more durable concrete
- Improved surface quality - reduces permeability
- Reduced plastic shrinkage - minimises cracks and repairs

## The Concure range

Fosroc has developed the Concure range of concrete curing compounds to suit a variety of concreting applications.

Each Concure product is designed to meet specific site criteria; and each one is classified, according to ASTM C309, as a high performance curing compound. The range itself can be split into two distinct categories:

Wax Based	: Concure WB
Acrylic Resin	: Concure 1315
Resin Based	: Concure LP90



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### Important note :

Fosroc products are guaranteed against defective materials and manufacture and are sold subject to its standard terms and conditions of sale, copies of which may be obtained on request. Whilst Fosroc endeavours to ensure that any advice, recommendation specification or 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 or information given by it.

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