Fosroc Concure 1315

constructive solutions

Eco-friendly, water-based, clear curing compound, sealer and dustproofer.

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 evaporation controlling compound, resulting in moisture retention
- 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 overcoated with waterbased and solvent based acrylic coatings, epoxy coatings, polyurethane coatings etc.

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 dustproofer 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 5-10m²/litre.

Specification

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

Properties

Solids content (ASTM D1644)	:	27%
Moisture retention (ASTM C156)	:	0.37kg/m²
Drying time (ASTM C135, M 8.3)	:	35 - 40 mins @ 20°C 10 - 15 mins @ 35°C
UV Resistance (ASTM G53)	:	Resistant - no yellowing, chalking - lighter than gardener colour 3
Adhesion of tile cement (ASTM C1315/ASTM D4541):		1.2 N/mm²

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
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 laitence, 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^2 per litre. Extra porous substrates will necessitate application of Concure 1315 at a rate of 5 - 10 m^2 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 a coverage of 10 - 15m^2 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 or pliolite**.
- 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

Concure 1315	**:**	200 litre packs

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.

Concure 1315	**:**	5 to 10 m^2/litre

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 recommend 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.

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.

Fur 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'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.

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Why use polymer curing compounds?

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:

- **General purpose** - **Concure WB**
  - **Concure RB90**
- **Dual purpose** - **Concure DPM**
  - **Concure 1315**

General purpose

The general purpose category is designed for common concreting applications; such as floor slabs, columns etc. Both products are available in clear and white pigmented versions, the latter being of particular benefit in reducing solar heat gain on large, exposed surface areas.

Concure WB

- water based curing compound > 80% efficiency
- economic answer to curing problems

Concure RB90

- resin based curing compound > 90% efficiency
- cost effective, high performance

Dual purpose

The dual purpose compounds, as the name suggest, not only provide efficient curing, but also include equally important, permanent and supplementary features.

Concure DPM

- bitumen based curing compound
- provides permanent waterproofing

Concure A

- acrylic resin based curing compound
- acts as a permanent hardener and dustproofer

Concure 1315

- acrylic polymer, water based curing compound
- chemical, UV and abrasion resistant
- acts as a permanent hardener and dustproofer

*** Denotes the trademark of Fosroc International Limited**

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

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ISO 9001 / ISO 14001 OHSAS 18001 BUREAU VERITAS Certification

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