



Concure A

Multi-purpose, pliolite resin, curing compound

Uses

Provides a high efficiency, spray-applied, curing compound with cost and labour saving supplementary features. It can be used in a wide range of applications:

- Factory floors and warehouses
- High rise construction to eliminate water curing
- General floor slabs and columns
- Self-curing, primer system to subsequent coverings

Advantages

- Enhanced concrete durability - acts as a dustproofers/surface hardener, 55% increase in abrasion resistance
- Excellent service life - good general resistance to chemicals and UV exposure
- Labour saving - acts as a primer system for subsequent finishes
- Versatile - can be applied equally well to freshly placed or existing concrete
- Cost effective - low cost spray application

Standards compliance

Classified to ASTM C309, Class B. Available as Type 2(white) or Type 1(clear), Meets the curing efficiency requirements of BS81110:PE1:Section 6:1985

Description

Concure A is a non-degrading, resin, curing compound. It is supplied as a single component liquid which is ready for immediate on-site application and available in two colours - white and clear.

Concure A is applied, by spray, to cementitious surfaces at a coverage rate of 4.5 to 5.5 m² per litre. It produces a hard wearing surface, with excellent adhesion properties; thereby also making it suitable as a primer for subsequent finishes which do not rely on penetration for substrate bond.

Specification

The multi-purpose, curing compound shall be Concure A, an acrylic resin supplied by Fosroc. It shall be certified to ASTM C309 as a curing compound.

Properties

Form	:	Clear amber liquid
Specific Gravity at 20°C	:	0.82 - 0.83
Cure times at 20°C and 50% relative humidity:		
Tack free	:	2 to 4 hours
Full cure	:	24 hours
Curing Efficiency (BS 7542-92)	:	>75%
Water Retention (ASTM C156)	:	Exceeds the requirements of ASTM C309

Instructions for use

Preparation

Concure A 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 A 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 A should be applied uniformly by brush, roller or spray, with no overlap of applications. Under standard site conditions, a single coat of Concure A applied at a uniform rate of 4.5 to 5.5 m² per litre, will meet ASTM C309 curing requirements.

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 A.

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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*.

Subsequent finishes

The resin used in Concure A 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

Estimating

Supply

Concure A	: 20 litre packs
Fosroc Solvent 102	: 5 litre packs

Coverage

Coverage figures quoted for Concure A 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 A	: 4.5 to 5.5 m ² /litre
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Storage

When stored in warehouse conditions below 35°C, Concure A 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 A should only be applied in well ventilated areas.
- Any concrete surfaces which receive treatment with Concure A should not be disturbed until the concrete has gained sufficient strength to bear surface loading.
- Concure A should not be exposed to moving water, or rain, during application or before it has become tack free.
- Concure A 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.

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

Concure A and Fosroc Solvent 102 should not come into contact with skin or eyes, or be swallowed. Avoid inhalation of vapour spray. Use only in well ventilated areas. If work is required in confined spaces, then respiratory equipment should be used. Suitable protective gloves and goggles should be worn at all times. Splashed 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 relevant Material Safety Data Sheet for these products.

Fire

Concure A and Fosroc Solvent 102 are flammable, store in accordance with local fire prevention regulations. Keep away from sources of ignition, in the event of fire extinguish using CO₂ or foam. Do **not** use a water jet.

Flash points

Concure A	:	40°C
Fosroc Solvent 102	:	33°C

Cleaning and disposal

Spillages of Concure A or Fosroc Solvent 102 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 :

- 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 A**

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 curing compound
- acts as a permanent hardener and dustproof



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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 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.

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