



Concure

Concrete Curing Compound

Uses

Provides a resin membrane to retain moisture in newly placed concrete for effective curing. Suitable for use on large areas of concrete construction such as runways, motorways or bridgeworks.

Advantages

- Reduces surface shrinkage and cracking by eliminating moisture loss from exposed surfaces
- Enables cement to hydrate more efficiently
- Provides hard wearing surface and prevents dusting
- Easy application reduces labour costs
- Saves time - can apply as soon as possible after placing concrete
- Eliminates need for damp hessian, sand or polyethylene

Description

Concure is the name given to a range of curing compounds for spraying onto the surface of concrete to provide an effective and economical method of curing.

Concure is available in several grades to meet specific requirements.

1. **Concure WB** is a water based curing compound (see separate data sheet).
2. **Concure 75 Standard** and **Concure 90 Aluminised**, **Concure 90 White** and **Concure 90 Clear** are resin based curing compounds dispersed in solvent.

Concure forms a tough resin film on the surface of the fresh concrete. This prevents water loss and enables the cement to hydrate more efficiently, eliminates the causes of shrinkage cracking and produces high compressive strengths with a harder wearing surface to the concrete.

The **Concure Aluminised** and **White** grades have the ability to reflect the rays of the sun, thereby keeping the temperature of the concrete to a minimum, which helps to prevent thermal stresses. Clear **Concure** film has a "built-in" breakdown system causing the resin film to disintegrate by the action of ultra-violet light over a period of two to three months, depending on weather conditions, **Concure 90 Aluminised** and **White** which breaks down by physical abrasion.

Concure 75 Standart

General purpose curing compound. Contains a fugitive green dye to assist in application. Curing efficiency in excess of 75% tested in accordance with D.O.T. Specification for Road and Bridge Works, 1976, Clause 2709. Water loss less than 0.055 g/cm²: complies with ASTM C309 Type 1. Can be used where concrete will be in direct contact with potable water e.g. reservoirs, water towers, etc.

Concure 90 Clear

Gives high curing, efficiency in excess of 90% when tested in accordance with D.O.T. Specification for Road and Bridge Works, 1976, Clause 2709.

Concure 90 Aluminised

Aluminised curing compound for high efficiency and where light reflectance is required to keep the temperature of the concrete to a minimum, particularly for roadways, runways etc., curing efficiency in excess of 90%. Complies with D.O.T. Specification for Road and Bridge Works, 1976, Clause 2603, and with D.O. E. Specification for Aircraft Pavements 1972, Clause 810.

Concure 90 White meets the requirements of ASTM C309-81, Type 2, and contains white pigments to give light reflectance, thus minimising solar heat gain and is particularly suitable for use in hot climates.

Standards

Concure 75 Standart and Concure 90

UK Department of Transport Specification for Road and Bridge Works: Clause 2709. ASTM C309-74 US Federal Specification TT-C800A (water loss requirement).

CP 110:1972: Part 1: Clause 6, 1 /6.2.
ASTM C309-81 Type 2.

Concure 90 Aluminised

Complies with D.O.T. Specification for Road and Bridge Works, 1976, Clause 2603, and with D.O.E. Specification for Aircraft Pavements 1972, Clause 810.

Concure 90 White complies with ASTM C309/81, Type 2.

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Concure

Properties

	Colour	
	Bulk liquid	Dry film
Concure 75 Standart	Green	Clear
Concure 90 Clear	Clear	Clear
Concure 90 Aluminised	Silver	Silver
Concure 90 White	White	White

Specific gravity at 20°C : 0.855.

Application temperature: Minimum 0°C.

Curing efficiency: Concure 75 exceeds the curing requirements of both D.O.T. Specification 2709 (75%) and ASTM C309 (maximum loss 0.055 kg/m²). Typical figure being 85% efficiency and 0.033 kg/m² water loss.

Concure 90 given even higher curing efficiency with typical figures of 91% (D.O.T. Specification Clause 2709) and water loss of less than 0.020 kg/m² (ASTM C309).

Concure 90 Aluminised. In excess of 92% complies with D.O.T. Specification for Road and Bridge Works 1976, Clause 2603 and with D.O.E. Specification for Aircraft Pavements 1972, Clause 810.

Membrane breakdown: (Applicable to Clear grades). After a period of approximately 28 days, the film formed on the concrete surface will begin to degrade. The rate of degradation will depend upon initial membrane thickness and the degree of exposure to ultra violet light. Light reflectance: 62% for White pigmented (must be more than 60%) ASTM C309-74.

Instruction for use

Application

Concure is spray applied to the surface of the newly placed concrete, care being taken to ensure complete coverage. Apply Concure as soon as possible after concrete has been troweled, tamped or textured to produce surface finish. Generally within 30 minutes or earlier where conditions of hot sun or dry winds prevail.

The nozzle of the spray should be held approximately 500 mm from the surface and passed back and forth to effect complete coverage. The pressure on the pump must be maintained at an times to produce a fine spray.

Precautions

Health and Safety

If contact with the resin occurs, the skin should be washed with soap and water - not solvent. A resin removing cream should preferably be used. Goggles should be worn when spraying with a short tance. Any eye contamination should be washed with plenty of water and medical treatment sought. When used in enclosed areas, good ventilation must be provided.

Fire

The Concure 90 and 75 range of products are flammable and no smoking or naked flames should be allowed.

Flash points :	Concure 90	40°C
	Concure 75	40°C
	Concure Cleaning Fluid	40°C
	Fosroc Solvent 103	40°C

Storage

Concure has a shelf life of 12 months when stored at temperatures between 0°C - 40°C. Containers should be kept airtight to prevent surface evaporation and should be protected from direct sunlight.

Packaging & Coverage

Product	Size	Coverage
Concure 75 Clear	20 litre pails	5-6 m ² per litre
	210 litre drums	
Concure 90 Clear	20 litre pails	4-5 m ² per litre
	210 litre drums	
Concure 90 Aluminised (White)	210 litre drums	4-5 m ² per litre
Concure Cleaning Fluid	25 litre pails	
Fosroc Solvent 103	25 litre pails.	
D.O.T. Specification for Road and Bridge Works:		
0.22-0.27 litres/m ²)	mechanical sprayer	
4.55-3.70 m ² /litre)		
0.27-0.36 litres/m ²)	hand sprayer	
3.7-2.77 m ² /litres)		
D.O.E. - B.A.A Standard Specification:		
Clause 810	85% efficiency	0.16 litres/m ² 6.25 m ² /litre

PT.FOSROC Indonesia

Jl.Akasia II Blok A8 No.1
Delta Silicon Industrial Park
Lippo Cikarang
Bekasi 17550
Indonesia
www.fosroc.com

telephone:
+62 21 897 2103
+62 22 520 1308
+62 31 502 9142

fax:
+62 21 897 2107
+62 22 522 2713
+62 31 502 2711

email:
indonesia@fosroc.co.id