Fosroc®
Concure® WB30

constructive solutions

Water based wax emulsion, curing compound

Uses

Concure WB30 provides a spray-on wax membrane to retain moisture in concrete for effective curing.

Especially useful for large areas of concrete construction such as runways, motorways or bridgeworks as a bond breaker between the base lean mix and the structural wearing slab.

Refer to technical services or our broader Concure range to determine the curing compound appropriate for applications subject to traffic, after trades and general construction.

Advantages

- Reduces surface shrinkage and cracking by eliminating moisture loss from exposed surfaces
- Increases concrete strength and dusting resistance
- Eliminates the need for damp hessian, sand or polythene
- Rapid film formation
- Enables concrete to hydrate more efficiently
- Non-flammable; non-toxic

Standards Compliance

Concure WB30 complies with the requirements of AS3799 - 1998: liquid membrane:

Concure WB30 Clear - Class A Type 1

Concure WB30 White - Class A Type 2

Copies of the certification are available on the Fosroc website.

Description

Concure WB30 is a low viscosity wax emulsion which incorporates a special alkali reactive emulsion system. This system ensures that the emulsion forms a non penetrating continuous film immediately upon contact with a cementitious surface. This impervious film prevents excessive water evaporation which in turn permits more efficient cement hydration thus reducing shrinkage and increasing durability.

Design criteria

AS3799 requires materials to be applied in a single coat application at a coverage rate of 5m²/litre.

Properties

	Concure WB30 Clear	Concure WB30 White
Non-volatile content:	32.36%	30.87%
Density:	0.947 kg / L	0.958 kg / L
Drying time:	4 hours	4 hours
Appearance:	White (wet)	White (wet)
	Clear (dry)	White (dry)
Water retention efficiency:	90%	91%
Viscosity:	0.15 Pa.s	0.11 Pa.s
Stability of emulsion (RMS T862):	0.11%	0.69%
Light reflectance*:	n/a	62%
Residue 150um:	0.01%	0.03%
Application temperature:	Min 5°C	Min 5°C

Light reflectance: must be more than 60% ASTM 309-74.

Membrane break down: (applicable to both grades); the rate of degradation will depend upon initial membrane thickness and the degree of exposure to ultra violet light. During this time the membrane may remain tacky and attrack site dust. The surface may also be slippery in wet weather.

Application Instructions

Concure WB30 should be thoroughly mixed prior to use and spray applied to the surface of newly placed concrete. The compound should be applied as soon as possible after the concrete is free from surface water. The nozzle of the spray should be held approximately 450mm from the concrete surface and should be passed back and forth to ensure complete coverage. The pump pressure should be maintained at a level producing a fine spray.

Concure WB30 should not be continuously re-circulated through high shear gear pumps when used in concrete train application. If continuous re-circulation is essential the sprayer should be fitted with a low shear diaphragm pump.

Rate of application should be 5.0m² / litre.

Equipment

For the application of Concure WB30, various types of spraying equipment can be used, i.e. knapsack or motorised sprays.

Cleaning

Immediately after use the spraying equipment should be cleaned out with water. If the spray nozzle becomes blocked with wax particles these can be removed using white spirit or similar fluid.

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Limitations

Due to the wax film produced, Concure WB30 **must not** be used as a curing aid on surfaces subjected to after trade treatments.

Until the membrane breaks down from UV and weather exposure, Concure WB30 has a slightly tacky surface after application which can attract dust and site contaminants.

The applied membrane can also be slippery during wet weather.

Do not brush on to soft, wet concrete or render surfaces which will be disturbed and thus prevent formation of the curing film.

Supply

Concure WB30 Clear 20 litre:	FC663051-20L
Concure WB30 Clear 200 litre:	FC663051-200L
Concure WB30 Clear 1000 litre (MTO*):	FC663051-1000L
Concure WB30 White 200 litre:	FC664071-200L
Concure WB30 White 1000 litre (MTO*):	FC664071-1000L

*Made to Order: Min order qty 1
Lead time: 7 - 14 days

Coverage

Concure WB30:	5.0m² per litre

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

Concure WB30 should be stored at temperatures between 4°C and 35°C in unopened original drums.

Containers should be kept airtight to prevent surface evaporation. Freezing or prolonged exposure to direct heat or direct sunlight must also be avoided.

Do not use if there are lumps in the product or has a bacterial (rotting) smell.

Important notice

A Safety Data Sheet (SDS) is available from the Fosroc website. Read the SDS and TDS carefully prior to use as application or performance data may change from time to time. In emergency, contact any Poisons Information Centre (phone 13 11 26 within Australia) or a doctor for advice.

Product disclaimer

This Technical Data Sheet (TDS) summarises our best knowledge of the product, including how to use and apply the product based on the information available at the time. You should read this TDS carefully and consider the information in the context of how the product will be used, including in conjunction with any other product and the type of surfaces to, and the manner in which, the product will be applied. Our responsibility for products sold is subject to our standard terms and conditions of sale. Parchem does not accept any liability either directly or indirectly for any losses suffered in connection with the use or application of the product whether or not in accordance with any advice, specification, recommendation or information given by it.

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Parchem Construction Supplies Pty Ltd
1956 Dandenong Rd Clayton VIC 3168
Ph: 1800 812 864
www.fosroc.com.au ABN 80 069 961 968

Distributed in New Zealand by: Concrete Plus Ltd
150 Hutt Park Road Gracefield Ph: 0800 657 156
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