

Water based wax emulsion, curing compound

Uses

Concure WB30 provides a spray-on membrane to retain moisture in concrete for effective curing. Used for concreting generally but especially useful for large areas of concrete construction such as runways, motorways or bridgeworks.

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
- Suitable for potable water applications, complies with requirements of AS/NZS 4020:2005

Specification Compliance

Concure WB30 complies with the requirements of AS3799 - 1998: liquid membrane - forming curing compounds for concrete.

A copy of the certification is available on request.

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

To achieve the correct curing properties, Concure WB30 must be applied on to the substrate at the coverage rate 5m² per litre.

Specification Clause

Concrete curing compound

All designated areas are to have a liquid curing compound applied to the freshly finished concrete. The curing compound will be based on wax emulsion, have a water retention efficiency of not less than 90% when tested to AS3799 and have a weight solids content of not less than 30%. Such a material is Fosroc Concure WB30 as supplied by Fosroc. The curing compound is to be applied in accordance with the manufacturers application instructions.

Properties

	Concure WB30 Clear	Concure WB30 White
Weight solids:	31%	32%
Specific gravity at 20°C:	0.968	1.00
Drying time:	2 - 3 hours	2 - 3 hours
Colour (wet):	White	White
Colour (dry):	Clear	White
Efficiency AS3799:	91%	93%
Viscosity:	Brookfield #2, 60 RPM at 25°C. Both grades 65 - 250 cP	
Minimum application temperature:	5°C	5°C

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.

Light reflectance: 62% for white pigmented (must be more than 60%) ASTM 309-74.

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.

Fosroc®

Concure® WB30

Limitations

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

Concure WB30 has a slightly tacky surface after application which can attract dust and site contaminants.

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

Concure WB30 should not be used as the curing compound for any metallic based integral floor hardeners. Concure CR or Concure HR90 should always be used to prevent rusting of the metallic aggregate.

Supply

Concure WB30 Clear 20 litre:	FC663050-20L
Concure WB30 Clear 200 litre:	FC663050-200L
Concure WB30 White 200 litre:	FC664070-200L

Coverage

Concure WB30:	5.0m ² per litre
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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 has a shelf life of 18 months when 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.

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.