

Water based concrete curing compound

Uses

For spraying on freshly cast concrete, or newly exposed concrete surfaces after removal of form work, to form a temporary membrane which will retain sufficient moisture for effective curing to take place. Used for concreting generally but especially useful for large areas of concrete such as pavements, runways and bridge decks; also for vertical or sloping surfaces as on towers, chimneys, canal linings, columns and beams, where water curing is difficult or unreliable.

Advantages

- Single application : Forms moisture barrier for whole of the curing period.
- No other curing necessary : Eliminates use of water, hessian or sand completely.
- Reliable : No risk of erratic or poor curing and ensures that cement hydrates efficiently.
- Ensures hard-wearing surface : Minimises risk of drying shrinkage, cracks and dusty surfaces.
- Easy and safe spray application: Non-toxic and nonflammable.

Standards compliance

Curing efficiency : Concure WB White curing compound complies with the internationally recognised ASTM C309, Type 2, Class A.

Description :

Concure WB Clear is a white colour, low viscosity milk emulsion which incorporates a special alkali reactive emulsion breaking system. It is supplied as a white emulsion which forms a white film on drying. This system ensures that the emulsion breaks down to form 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.

Once formed, the membrane will remain on the concrete surface until eventually broken down and eroded by natural weathering. Where it is required to apply a further treatment to such concrete surface, it may be necessary to remove the membrane remaining after curing by wire brushing or other mechanical means.

The use of curing membranes on internal floor slabs is generally to be avoided where additional surface finishes are

to be applied. Concure WB White is however ideal where the concrete surface of a floor slab is to be left as 'finished'.

Technical Support

Fosroc offers a comprehensive range of high performance, high quality concrete repair and construction products. In addition, Fosroc offers technical support service to specifiers, end users and contractors, as well as on site technical assistance in locations all over the country.

Properties

Density	: 1.00 to 1.01 g/cc
Colour	: Milky White
Water loss (ASTM C156)	: <0.55 kg/m ²
Reflectance (E1347)	: >60%
Drying time (ASTM C309)	: < 4 hrs
Minimum application temperature	: 10°C

Coverage rate

The recommended coverage rate is between 3.5 and 5.0 sq.m / litre (0.200 to 0.285 litres/sq.m). Coverage rates outside this recommended range may be used if necessary and suitable to meet specific requirements. Contact local Fosroc office for advice in such cases.

Equipment

Spray equipment producing a fine mist may be used for Concure WB White such as knapsack or motorised sprayers. The suitability of equipment should be ensured by an application trial.

Application instructions

Application

Exposed concrete slabs : Concure WB White should be spray applied on to the newly placed concrete slab as soon as possible after it is free from visible surface water, e.g. typically 1 to 2 hours after placing.

Shuttered and precast concrete : Concure WB Clear curing compound should be spray applied to all surfaces as soon as formwork has been removed or the element demoulded.

In all cases the nozzle of the spray should be held approximately 450mm from the concrete surface and should be passed back and forth to ensure complete and even coverage. The pump pressure should be maintained at a level to produce a fine spray

Concure WB White

ensuring complete coverage of the surface.

Rate of application depends on requirements but is typically within the range of 200 to 285 ml/m².

Equipment

The preferred and generally used equipment is a knapsack sprayer of the type commonly used in horticulture or pest control. The ideal type is a knapsack sprayer with a capacity of between 5 - 10 litres fitted with a 2.0m lance and adjustable spray nozzle.

Equipment cleaning

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

Estimating

Packaging

Concure WB White is available in 5, 20 & 200 litre drums.

Storage

Concure WB White has a shelf life of 6 months when stored at temperatures between 5°C and 35°C. Containers should be kept airtight to prevent surface evaporation. Freezing or prolonged exposure to direct heat or sunlight must be avoided.

Precautions

Health & Safety instructions

Concure WB White is non toxic. It is advisable to wear goggles when spraying. Inhalation of the spray should similarly be avoided. Should skin contact with the compound occur it shall be washed with clean water and a skin conditioning cream shall be applied. If Concure WB White comes into contact with eyes it shall be washed with clean water. If irritation persists, immediate medical attention shall be sought. If the compound is swallowed, vomiting should not be induced but medical assistance shall be obtained immediately.

Fire

Concure WB White is water based and non flammable.

Additional information

The Fosroc range of associated products includes high strength cementitious, epoxy grout, polyester resin based mortar for rapid presetting of steel shims to level or for direct bedding of small base plates; Resin anchoring systems for same day anchoring of bolts in drilled holes in concrete or rock. Also available a range of products for use in construction; viz., admixtures, curing compounds, release agents, flooring systems and repair mortars.

Separate datasheets are available on these products.