

## MONOCURE WB

Water based concrete curing compound

### Description

**MONOCURE WB** is a low viscosity wax emulsion incorporating a special alkali “trigger” which breaks the emulsion in contact with an alkaline surface to produce a non-penetrating continuous film on contact with a cementitious surface. This film prevents excessive water evaporation resulting in more efficient cement hydration, reduced shrinkage and increased durability.

**MONOCURE WB** is supplied as clear and white pigmented colours, the clear colour is a white liquid, which forms a wet white film when applied to concrete surfaces, this dries to form a transparent film.

The white pigment colour is a white milky liquid, which forms a white film after drying and reflect 60 – 80% of the sunlight providing the recommended coverage has been maintained.

The two grades are designed to retain sufficient moisture in the concrete to ensure full hydration of the cement, which is essential for optimum strength development.

### Applications

**MONOCURE WB** is used mainly for newly cast concrete and cementitious surfaces to retain sufficient moisture to ensure full hydration of the cement.

**Typical application areas include:**

**Runways and roads.**

**Roof decks.**

**Retaining walls.**

**Irrigation canals.**

**Concrete floors.**

**Columns and underground foundations.**

### Advantages

- Helps achieving concrete desired -strengths.
- Minimizes potential surface -cracking and shrinkage.
- Promotes a harder dust free surface.
- Single component.
- Can be spray applied to reduce labor cost.

### Standards

**MONOCURE WB** is suitable for use in structures that will be in contact with potable water when tested in accordance with BS 6920.

### Method of Use

**MONOCURE WB** should be spray applied as soon as possible to the fresh concrete, provided that the surface water has evaporated.

Do not apply if bleed water is forming, or is present on the concrete surface. Stir **MONOCURE WB** well before use to ensure even pigment dispersion.

**MONOCURE WB** should be spray applied, the spray nozzle should be held approximately 450 mm from the concrete surface and passed back and forth to ensure complete coverage. Pump pressure should be maintained to give an even, fine spray.

The applied film should be protected from rain for at least 3 hours; care should be taken to ensure that the film is not broken.

In case of formed concrete, **MONOCURE WB** should be applied immediately after de-shuttering. In such a case the concrete surface must be dampened with clean water prior application of **MONOCURE WB**.

Dry surfaces may prevent correct film formation

and cause absorption of the **MONOCURE WB** into the concrete surface, which may lead to staining and difficulty in later degradation and removal.

## Remarks

It is important that the complete removal of the **MONOCURE WB** is ensured prior to the application of any surface finishes or additional surface treatments.

**MONOCURE WB** can be removed by using high pressure steam, water jetting or light sand blasting.

It is recommended to use **MONOCURE WB** where the concrete is to receive a coating or further surface treatment.

**MONOCURE WB** minimum application temperature is 5°C. Solvent based curing compounds are also available from STARKE.

## Cleaning

Tools and equipment can be cleaned with soaped water when wet. Dried **MONOCURE WB** should be removed with STARKE- Solvent.

## Packaging

**MONOCURE WB** is available in 5, 20 and 200 litre containers.

## Coverage

The recommended coverage rate is 2.5 - 3.5 m<sup>2</sup>/litre.

## Storage

Store in a dry area out of direct sunlight between 5°C and 35°C.

## Shelf Life

**MONOCURE WB** has a shelf life of 12 months from date of manufacture for the clear version, and 9 months for the pigmented, if stored in proper conditions in un-opened drums.

If these conditions are exceeded, STARKE Technical Department should be contacted for advise.

## Cautions Health and Safety

**MONOCURE WB** is not classified as hazardous material. In case of accidental splashes to the eyes, rinse with clean water and seek medical advise. Suitable protective gloves and goggles should be worn.

For further information refer to the Material Safety Data Sheet.

## Fire

**MONOCURE WB** is water based and is nonflammable. STARKE-Solvent is flammable. Ensure adequate ventilation. Do not use near a naked flame and do not smoke during use.

**Flash Point:** STARKE-Solvent: 37°C.

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