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# SPECcure WE

## WATER BASED CONCRETE CURING COMPOUND

### DESCRIPTION

**SpECcure WE** 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.

**SpECcure WE** is available in two grades.

**SpECcure WE** clear is for all applications in temperate climates and **SpECcure WE** white pigmented grade is recommended in hot climates due to its light reflectance properties minimizing solar heat gain.

### TYPICAL USES

- As a spray applied membrane to retain moisture in concrete for effective curing
- Suitable for all general concreting applications and particularly suited for large area concrete surfaces, such as bridgeworks, airport runways and roads

### ADVANTAGES

- Control of moisture loss improves surface quality, reducing permeability, producing a hard wearing, dust-free surface and minimizing the potential for surface cracking and shrinkage
- Improved durability
- Non-flammable
- Available in white pigmented grade-minimizing solar heat gain
- Spray application reduces labour costs and eliminates the need for alternative curing systems

### TECHNICAL DATA

	Clear	White Pigmented
<b>Colour</b>	White	White
<b>Dry Film</b>	Clear	White
<b>SG @ 20°C</b>	0.98	1.0

### RELEVANT STANDARDS

**SpECcure WE** clear - curing efficiency in excess of 75% as required by BS 8110 when tested in accordance with DTp Specification for Highway Works Clause 1027.

Complies with ASTM C309 - Type 1D curing membrane.

**SpECcure WE** white - curing efficiency in excess of 75% when tested in accordance with DTp Specification for Highway Works Clause 1027.

Complies with the water retention and light reflectance requirement of ASTM C309 as a Type 2 curing compound.

### APPLICATION

**SpECcure WE** should be 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 spray nozzle should be held approximately 500mm from the concrete surface and should be passed back and forth to ensure complete coverage. The pump pressure should be maintained at a sufficient level to produce a fine spray.

**SpECcure WE** can be applied by various types of spraying equipment e.g. knapsack units or P8 plastic spray units. All equipment should be thoroughly cleaned with water after use.

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The clear or opaque film produced by **SpECcure WE** will begin to degrade after 25-30 days however pro-per preparation techniques including the removal of the membrane, must be used prior to the application of subsequent surface treatments.

#### **EQUIPMENT CLEANING**

Clean all equipment with water.

#### **PACKAGING & YIELD**

25 and 200 litre containers. Typical coverage of 4.5 to 5.5m<sup>2</sup> per litre.

#### **STORAGE & SHELF-LIFE**

**SpECcure WE** should be stored at temperatures below 35°C in unopened containers. Protect from frost. **SpECcure WE** has a shelf life in excess of 24 months when stored as above.

#### **HEALTH & SAFETY**

**SpECcure WE** does not fall into the hazard classification of current regulations, however, it should not be swallowed or allowed to come into contact with skin and eyes either in bulk or spray form.

Suitable protective gloves and goggles should be worn. Splashes on the skin should be removed with water. In case of contact with eyes rinse with plenty of water and seek medical attention immediately - DO NOT induce vomiting.

#### **FLAMMABILITY**

**SpECcure WE** is water based and non-flammable.

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