TECHNICAL DATA SHEET

KWA – ZULU NATAL
T: 031 701 2619
E: natal@mccc-sa.co.za
Unit 7, Marlmead, 4 Reed Place,
Maxmead, Pinetown, 3610

MULTI CONSTRUCTION CHEMICALS
http://www.mcc-sa.co.za

MULTICURE 300 C AND 300 W

Petroleum Resin-based Concrete Curing Compounds Types I and II

Specification Type
MULTICURE 300C: ASTM C309 Type 1 Class B, DOE general specification, AASHTO M-148. Efficiency Index 70, 2%
MULTICURE 300W: ASTM C309 Type 2 Class B, AASHTO M148. (White Pigmented) Efficiency Index 71, 2%. S A.B.S. teste d for compliance w it h above specifications

Description
The MULTICURE resin-based concrete Curing Compounds are available in several grades for the specific purposes as detailed below. All grades are composed of high grade petroleum resin extracts in a solution of quick drying solvents. The pigmented
MULTICURE resin based curing membranes are available with either white or aluminum reflective pigments. These products give a high curing efficiency and also provide a daylight reflectance value of between 60-80%. Thus, even in intense heat resulting from strong sunlight, a high curing efficiency with minimal danger of thermal expansion and cracking is achieved.

Typical Applications
The MULTICURE range of petroleum resin based Curing Compounds are economical and assist in efficient concrete curing by retaining the moisture in fresh concrete. The retention of water in the concrete is essential to ensure adequate strength development and to minimize initial shrinkage crack development. Enables the processes of hydration to proceed under optimum conditions, consequently the finished concrete has a harder, dust-free surface whilst hairline cracks are reduced to a minimum. Therefore, where high Curing Efficiency Index rates are required MULTICURE resin film-forming membrane compounds should be considered. Bearing in mind that should subsequent surface coatings be required the time lapse involved with resin based membranes is substantially longer. The selection of the correct curing membrane grade is dependent on specification requirements and on job site conditions.

Advantages:
* Economical, single application
* Reduces incidence of hairline cracks
* Reduces drying shrinkage
* Efficient curing
* Effective in all conditions pertaining to temperature and humidity
* Applicable to all site placed concrete, i.e. paving, floors and structural concrete
* MULTICURE 300C can be supplied with fugitive dye for ease of identification on applied areas

Typical Properties (Multicure 300 C)

Appearance:	Light amber liquid
Specific Gravity:	0.95 at20°C
Flashpoint:	68°C (Abel closed up)
Finished Film:	Light amber tack-free film
Shelf life:	Up to 1 year when store in accordance with manufacturer's instructions
Water retention:	ASTM C309 Pass
Drying Time:	ASTM C309-2 Hours

Typical Properties (Multicure 300 W)

Appearance:	White coloured liquid
Specific Gravity	1.24 at20°C
Flashpoint:	62°C (Abel closed up)
Finished Film:	White reflective tack free film
Shelf life:	Up to 2 years when store in accordance with manufacturer's instructions
Water retention:	ASTM C309
Drying Time:	ASTM C309-2 Hours

Directions for Use
MULTICURE 300C (or) W should be applied to freshly cast concrete surfaces as evenly as possible. For horizontal surfaces the MULTICURE 300 C (or) W should be applied immediately after the initial surface sheen has disappeared. In the case of formed concrete the relevant MULTICURE should be applied immediately on removal of formwork, i.e. when the concrete is still "green'. To assist breakdown of the MULTICURE film on vertical and formed surfaces, it is essential to dampen down the concrete with clean water prior to application.

Coverage
The recommended application rate is 8m2 / litre. This corresponds to the test specifications which the MULTICURE 300 series attains the claimed degree of curing efficiency. In favourable conditions, shaded interior surfaces, adequate curing can be achieved with extended coverage rates. However, when rates of cover are stipulated in a specification, these should be observed at all times.

Film Breakdown
Breakdown of the MULTICURE film commences after 30 days and can take up to 6 months to degrade completely. The time required for total disintegration is dependent on variables such as film thickness, the degree and severity of exposure to weather and traffic and also the porosity of the concrete surface.
Note: MULTICURE 300W is not a coating system and colour will eventually yellow with age.

Subsequent Surface Finishes
It is important that the complete removal of the MULTICURE has taken place prior to any subsequent surface finish is applied.

Equipment Care
All equipment should be thoroughly cleaned after use.

Packaging
Supplied in 25 and 200 litre drums

Specification Clause
MULTICURE (state grade) resin based concrete curing compound manufactured by MULTI CONSTRUCTION CHEMICALS (PTY) LTD or similar approved, to the following specification: ASTM C-309 Type (state) Class B, DOE General Specification, and AASHTO M-148. Composition - high
molecular weight petroleum resin extracts in a solution of quick

The information supplied is believed to be reliable. As we do not have any control over the processing or application of the product we cannot guarantee the results to be obtained. Users assume all risks and liability resulting from the use of this product and must confirm the suitability thereof by conducting their own test. No guarantee is expressed or implies. Liability is limited to the replacement of faulty material.
FOR PROFESSIONAL USE ONLY

MULTI CONSTRUCTION CHEMICALS SOUTH AFRICA (PTY) LTD
Reg. No. 1991/018517/23

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drying solvents. MULTICURE (state grade) is to be applied to the concrete (indicate) at a coverage range of 8 m2 per litre strictly in accordance with the manufacturer's instructions.

Quality Assurance

MULTI CONSTRUCTION CHEMICALS (PTY) LTD's production and testing programmes comply to local testing standards. These stringent testing requirements comply to performance specifications for concrete Curing Compounds ASTM C-309, DOE, GEM, and Spec AASHTO M-148

Updates

This data sheet supersedes all previous issues prior to this date: 31/05/97.

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