

## MULTICURE 200

### Water Based Acrylic Emulsion Concrete Curing Compound

#### Specification Type

MSHTO M148 (Hardening), National Water Council approved 821052 G 8. Approved for use on structures to receive potable water.

#### Description

MULTICURE 200 a water-based slightly viscous acrylic emulsion solution which dries to a colourless stain-free surface finish when applied to the concrete. Note: on over-application, a slightly glassy concrete surface finish can result.

#### Typical Applications

MULTICURE 200 is an economical method of assisting efficient concrete curing. The presence and retention of water in concrete is essential to ensure adequate strength development and to minimize initial plastic shrinkage crack development. Unlike conventional surface film forming membranes, MULTICURE 200 acts chemically with the hydroxides produced by hydration of cement in concrete thus giving a dense, pore-filling, crystalline structure which in turn reduces the moisture evaporation rate from the concrete surface. It should be noted that whilst MULTICURE 200 is effective in improving moisture retention, the curing Efficiency Index is lower than that of conventional resin film-forming membranes (see data sheet on our MULTICURE 300 Curing Compound range).

Therefore, where high curing Efficiency Index Rates are required, the MULTICURE resin film-forming membrane compounds should be considered. Bear 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 shrinkage cracks
- \* Promotes better strength gain characteristics
- \* Useful as a dust- proofer and surface hardener particularly on floor areas

#### Typical Properties:

Appearance:	Clear, slightly viscous liquid 1.0 at 20° C
Specific Gravity:	None
Flashpoint:	None
Finished Film:	Normal application: clear. On over-application: glossy effect
Shelf life:	Up to 2 years when store in accordance with manufacturer's instructions
Freezing Point:	0° C
Chloride Content:	None
Toxicity:	None

#### Pigmentation

MULTICURE 200 is also available with a fugitive dye to indicate areas where the curing compound has been applied. It then fades after 2-3 days exposure.

#### Directions for Use

MULTICURE 200 should be spray applied to freshly cast horizontal concrete surfaces immediately after the initial surface water sheen has disappeared. For vertical surfaces the MULTICURE 200 can be applied immediately to the "as stripped" concrete surface (there is no prerequisite to damp down the surface prior to application).

#### Coverage

The recommended application rate (preferably by spray applicator) is 8.5m<sup>2</sup> / litre.

#### Subsequent Surface Finishes

The main advantage in using MULTICURE 200 is that it will not interfere in any way with subsequent surface treatments for concrete, i.e. paints, emulsions, sealants, adhesives, renders, tile adhesives etc. If in doubt please contact MCC LIMPOPO.

#### Equipment Care

All equipment should be cleaned with water after use.

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#### Packaging

Supplied in 25 or 200 litre metal or plastic drums

#### Specification Clause

Freshly placed exposed concrete shall be cured by spray application with MULTICURE 200 concrete curing compound manufactured by MULTI CONSTRUCTION CHEMICALS or similar approved and manufactured to the following specifications:

- \* Specific Gravity at 20° C (sheen cup) 1, 0. Compliance with specification type MSHTO M148 and National Water Control Approval 8104MX ( Great Britain)
- \* Composition: High molecular weight acrylic water based solution
- \* MULTICURE 200 is to be applied to the concrete (indicate) at a coverage range of 8,5m<sup>2</sup> 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.

#### Updates

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