

MasterSeal 501 WA

Crystalline Waterproofing admixture for Concrete

MATERIAL DESCRIPTION

MasterSeal 501 WA is a corrosion free concrete waterproofing admixture used for the treatment of concrete and concrete products to protect against water intrusion, leakage, cracking, chemical attack and corrosion of reinforcing steel.

MasterSeal 501 WA reacts with the hydration products of cement to form crystals within the pores and capillaries of concrete structures, thereby effectively blocking the passage of water.

Complete waterproofing is normally achieved within 5 – 7 days from final set. After the crystallisation process has successfully waterproofed the concrete the active chemicals of **MasterSeal 501 WA** remain dormant in the concrete. Any subsequent contact with water will reactivate the **MasterSeal 501 WA** sealing process.

ADVANTAGES

- Provides total and permanent waterproofing properties.
- Protects concrete and reinforcement against corrosive waterborne substances.
- Crystalline action is reactivated by contact with water providing dormant additional protection.
- Effective against both positive and negative pressure.
- Non-toxic or tainting.

PACKAGING

MasterSeal 501 WA is supplied in 25kg bags.

DIRECTIONS FOR USE

MasterSeal 501 WA is a dry powder which is added to the concrete at the batch plant at the rate of 1.5% of total cementitious content up to a maximum of 6 kg per cubic metre of concrete.

TYPICAL PROPERTIES*

Properties listed are for guidance and are not a guarantee of performance.

Aspect	Control	MasterSeal 501 WA
W/C Ratio	0.51	0.50
Initial Set	5.50 hours	7.50 hours
Final Set	7.20 hours	9.50 hours
Air	1.50%	1.50%
Slump	100mm	100mm
Compressive Strength	31.5 N/mm ²	36 N/mm ²
Drying Shrinkage (micron)	380	340
Water Permeability	9.5 x 10 ⁻¹³	6.1 x 10 ⁻¹³

The addition of **MasterSeal 501 WA** will increase the strength of standard concrete over that of a control mix, will reduce the shrinkage, and reduce the permeability of the concrete.

Most other properties remain the same however there is an approximate two-hour delay in the setting time that should be factored into the finishing operations.

CURING

Concrete containing **MasterSeal 501 WA** must be prevented from drying out too rapidly and should be kept damp for 5 – 7 days. Mist spraying with water and covering with polythene is effective when drying out would otherwise take place. Protect from weathering, sun, frost and wind for a similar minimum period.

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NOTE

Technical support, where provided, does not constitute supervisory responsibility. For additional information contact your local MB Construction Chemicals Solutions South Africa (Pty) Ltd representative. MB Construction Chemicals Solutions South Africa (Pty) Ltd shall not be liable for technical advice provided.

MB Construction Chemicals Solutions South Africa (Pty) Ltd reserves the right to have the true cause of any difficulty determined by accepted test methods. Undertaking such tests is not, and shall not be deemed to be, an admission of liability or an assumption of any risk, loss, damage or liability.

QUALITY AND RESPONSIBLE CARE

All products originating from MB Construction Chemicals Solutions South Africa (Pty) Ltd are manufactured under a management system independently certified to conform to the requirements of the quality standards ISO 9001, environmental and occupational health and safety standards.

* Properties listed are based on laboratory controlled tests.

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