

# MASTERSEAL 501 WA

## Waterproofing admixture for Concrete

### 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

### Packing

MASTERSEAL 501 WA is packed in 25 kg units, and can be supplied either in a metal pail or bag format.

### 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 performance characteristics

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	100 mm	100 mm
Compressive Strength	31.5 N/mm <sup>2</sup>	36 N/mm <sup>2</sup>
Drying Shrinkage (micron)	380	340
Water Permeability	$9.5 \times 10^{-13}$	$6.1 \times 10^{-13}$

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.

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## 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.

## Note

Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local MBCC representative.

MBCC reserves the right to have the true cause of any difficulty determined by accepted test methods.

## Quality and care

All products originating from MBCC's Dubai, UAE facility are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, ISO 14001 and OHSAS 18001.

02/2007 MBCC\_CC-UAE

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**As all BASF technical datasheets are updated on a regular basis it is the user's responsibility to obtain the most recent issue.**

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