

Integral waterproofing admixture for concrete

DESCRIPTION

MegaSeal WTA 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.

MegaSeal WTA 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 crystallization process has successfully waterproofed the concrete the active chemicals of **MegaSeal WTA** remain dormant in the concrete. Any subsequent contact with water will reactivate the **MegaSeal WTA** sealing process.

ADVANTAGES

- Provides total and permanent water proofing 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

DIRECTIONS FOR USE

MegaSeal WTA 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 meter of concrete.

PACKING

MegaSeal WTA is packed in 20 kg units, and can be supplied either in a metal pail or bag format.

DIRECTIONS FOR USE

Aspect	Control	MEGASEAL 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 ²	36 N/mm ²
Drying Shrinkage (micron)	380	340
Water Permeability	9.5×10^{-13}	6.1×10^{-13}

The addition of **MegaSeal WTA** 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 **MegaSeal WTA** 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 representative.