



MegaAdd WP

Plasticising Integral Waterproofing Powder Admixture

DESCRIPTION

MegaAdd WP is a single pack waterproofing, plasticising, permeability reducing, shrinkage reducing, corrosion inhibiting admixture in powder form. It chemically modifies the cement matrix by reacting with the cement paste, thereby converting the most water soluble constituents and unhydrated cement into insoluble minerals. Due to the unique technology of modifying the cement paste chemically, the large numbers of the macropores are reduced in size to micropores. These micropores are hydrophobic in nature, blocking condensation.

USES

MegaAdd WP is used to reduce the permeability of concrete in above and below grade applications to provide concrete with greater durability in structures, to provide resistance to reinforcing steel corrosion. Typical application includes parking structures, ready-mix concrete, wastewater treatment plants, underground vaults, piling foundations, tanks and pits, swimming pools, water storage tanks, tunnels, bridge structures (precast and cast-in-place).

ADVANTAGES

- Very low water absorption
- Reduces the water cement ratio (10-15%)
- Highly cohesive mix eliminating voids and honeycombs
- Improved resistance to sulphate, chloride and chemical attack
- Reduction in carbonation of concrete
- Reduces efflorescence and staining
- Ready to use, easily dispersed powder
- Chloride free and safe for use in prestressed and reinforced concrete
- Minimizes segregation
- Significantly reduces the drying shrinkage
- Lower heat of hydration
- Excellent freeze-thaw resistance
- Anti-bacterial and anti-fungal properties

TYPICAL PROPERTIES at 25°C

PROPERTY	TEST METHOD	VALUE
Component	-	Single
Form	-	Powder
Colour	-	Off White
Bulk Density	-	0.50 +/- 0.05 gm/cc
Chloride Content	BSEN 480-10	Nil to BSEN 934-2
Water Absorption	BS 1881-122	60% to 80% improvement over control*
* When added at 2% dosage in standard mix. Consult Conmix.		

COMPATIBILITY

MegaAdd WP can be used with all types of cements and cementitious materials like fly ash, GGBS, micro silica, etc. **MegaAdd WP** should not be pre-mixed with other admixtures.



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DOSAGE	Recommended dosage is 0.8 - 2.5% by weight of cementitious material. Optimum dosage of MegaAdd WP and effect on concrete properties such as workability, strength, setting time, etc. are best assessed after preliminary tests on site using the actual materials of mixes under consideration.	
EFFECT OF OVER DOSING	Overdosing may result in higher workability and watertight concrete. In case of accidental overdosing, check strengths and setting times before stripping forms. Overdosing normally will have no detrimental long term side effects as long as cured correctly with water before stripping forms. In general 28 days strengths would be improved.	
PACK SIZE	8 kg and 20 kg	
DISPENSING	MegaAdd WP is supplied as pre-weighed, ready to use powder. The pre-weighed quantity of MegaAdd WP should be added along with the sand / cement / aggregates. MegaAdd WP will not entrain additional air when used in wet concrete but will plasticise the mix and cause a significant increase in workability.	
GENERAL INFORMATION	Shelf Life	12 months from date of manufacture when stored under warehouse conditions in original unopened packing. Extreme temperature / humidity may reduce shelf life.
	Cleaning	Clean all equipments and tools with water immediately after use.
HEALTH and SAFETY	PPE's	Gloves, goggles and suitable mask must be worn.
	Precautions	Contact with skin, eyes, etc. must be avoided.
	Hazard	Regarded as non-hazardous for transportation.
	Disposal	Do not reuse bags. To be disposed off as per local rules and regulations.
	Additional Information	Refer MSDS. (Available on request.)
TECHNICAL SERVICE	CONMIX Technical Services are available on request for onsite support to assist in the correct use of its products.	

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