

Max Flo Integra 4 (Powder) is a single pack water proofing, plasticizing, permeability reducing-shrinkage reducing, corrosion inhibiting admixture in powder form. It chemically modifies the cement matrix by reacting with the cements 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

Max Flo Integra 4 (Powder) 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, readymix concrete, wastewater treatment plants, underground vaults, piling foundations, tanks and pits, swimming pools, water storage tanks, tunnels, bridge structures (precast and cast-inplace).

ADVANTAGES

- ✓ Incredibly low water absorption
- ✓ Reduces the water cements ratio (10-15%)
- ✓ Highly cohesive mix eliminating voids and honeycombs
- ✓ Improved resistance to sulphate, chloride, and chemical attack.
- ✓ Reduction in carbonation of concrete
- ✓ 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
Bulk Density	-	0.50 +/- 0.05 gm/cc
Chloride Content	BSEN 480-10	Nil to BSEN 934-2
Water Permeability	BSEN 12390-8	>90% reduction over control

Typical results under laboratory conditions. Results may vary as per site and usage conditions



COMPATIBILITY

Max Flo Integra 4 (Powder) can be used with all types of cements and cementitious materials like fly ash, GGBS, micro silica etc. Max Flo Integra 4 (Powder) should not be pre-mixed with other admixtures unless recommended by Ressichem Technicians.

DOSAGE

Recommended dosage is 0.8 –2.5 % by weight of cementitious material. Optimum dosage of Max Flo Integra 4 (Powder) 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 OVERDOSING

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 strength would be improved.

PACK SIZE

Available in 2KG and 20KG packs.

DISPENSING

Max Flo Integra 4 (Powder) is supplied as pre-weighed, ready to use powder. The pre-weighed quantity of Max Flo Integra 4 (Powder) should be added along with sand / cement / aggregates. Max Flo Integra 4 (Powder) will not entrain additional air when used in wet concrete but will plasticize the mix and cause a significant increase in workability.

SHELF LIFE

12 months from the date of manufacture when stored under cool and dry warehouse conditions in original unopened packaging. Extreme temperature and humidity may reduce shelf life.

HEALTH AND SAFETY

This product is considered as non-hazardous and safe for transportation. Suitable masks and gloves can be worn during application. Contact with skin should be avoided. Refer to product MSDS for further health and safety information.