

CONSET HWR400-

High Performance Water Reducing Admixture

Standard compliance

HWR400- complies with ASTM C494- as Type A, Type F and Type G depending on the dosage.

Description

HWR400- is a chloride free high performance water reducing admixture based on specially selected and blended organic polymers. It is a brown liquid which can be easily dispersed in water.

Uses

- Particularly suitable for increasing workability of ready mixed concrete at elevated temperatures.
- Significantly improve the workability of concrete without increasing water demand.
- Significantly reduce the water demand of a concrete mix without reducing workability, allowing greatly increased early and ultimate strengths without additional cement.
- Reduce concrete permeability and thereby reduce water penetrations and enhance durability.

Advantages

- Use in production of flowing concrete permits easier construction with quicker placing and compaction and reduced labor costs.
- Workability loss in high workability concrete is slower than normally found with superplasticizers.
- Major increases in strength at all ages without increased cement content are of particular benefit in pre-cast construction.
- Reduction in water:cement ratio enhances durability, producing low permeability concrete with reduced shrinkage cracking potential.
- Chloride free, safe for use in pre-stressed and reinforced concrete.

Properties

- Appearance Brown liquid
- Specific Gravity (g/cm³) 1.270 1.230 (3 at 25 °C)
- pH value 8.0 4.0
- Chloride content (%) Nil
- Air entrainment typically less than %2 additional air is entrained at normal dosages

Typical Dosages

- For high strength, water reduced concrete, the normal dosage range is from 0.50 liters to 1.50 liters per 100 kg of cementitious material, including PFA, GGBFS and micro-silica
- For high workability concrete, the normal dosage range is from 0.50 liters to 1.20 liters per 100kg of cementitious material.
- To meet specific requirements, the dosage should always be determined by trial mixes using the materials and conditions that will be experienced in use.



engineered to perform

