

MasterPolyheed® 8114

DESCRIPTION

MasterPolyheed® 8114 is a chloride free, high range water reducing and retarding admixture formulated to produce low slump loss rheoplastic concrete. Rheoplastic concrete is fluid, workable, or easily flowing concrete but at the same time free from segregation.

The slump retention characteristics of rheoplastic concrete allow the addition of **MasterPolyheed® 8114** at the batching plant. **MasterPolyheed® 8114** meets ASTM C-494 requirements for Type G admixture and AS 1478 requirements for type HRWR.

Workability

MasterPolyheed® 8114 can maintain the workability of fresh concrete for about 2 hours at 20°C. The precise workability duration depends on temperature, types of cement and aggregates, transport and dosages of admixture. Higher dosage provides longer duration of workability of fresh concrete.

Compatibility

MasterPolyheed® 8114 is compatible with both water reducers and air entraining agents approved under ASTM specifications. When used in concrete, it should be dispensed separately into the concrete mix. Should it be used in conjunction with water reducing admixture, specific test information using proposed dose rates are required. Otherwise, extended retardation could result.

FIELDS OF APPLICATION

- Mass concrete pours
- Long distance transport
- High manufactured sand concrete
- Pumped concrete
- Concrete in hot climates
- Central batch plants for concrete to be transported for more than 1 hour
- Concrete to be pumped over a distance of more than 200 meter or to a considerable height

FEATURES & BENEFITS

MasterPolyheed® 8114 considerably improves the properties of fresh and hardened concrete

- high reliability
- good workability and surface finish
- impermeability

- durability
- dimensional stability
- high elastic modulus
- low shrinkage and creep

APPLICATION

MasterPolyheed® 8114 can be added at the batch plant or on site. When adding at the batch plant, delay the addition until the cement has been thoroughly wetted and at least 80% of water added. When introduced on site, mix for further 2 minutes after addition.

DOSAGE

MasterPolyheed® 8114 is normally dosed at 0.4–1.8 L per 100 kg of cementitious. Other dosages may be used, depending on the mix design of the concrete and ambient conditions.

The actual dose depends on the degree of water reduction of flow required.

SHELF LIFE

MasterPolyheed® 8114 can be stored for 12 months if stored at temperatures above 5°C, in tightly sealed original drums. If found to be frozen, thaw it and reconstitute by stirring.

RATE OF HARDENING

Setting time is influenced by the chemical and physical composition of the basic ingredients of the concrete, temperature of the concrete and climatic conditions.

Trial mixes should be made with job materials to determine the optimum dosage required for a specified setting time and a given strength requirement.

PACKAGING

MasterPolyheed® 8114 is supplied in 205 liter sealed drums and bulk delivery

For additional information on **MasterPolyheed® 8114** and its use in developing a concrete mix with special performance characteristics, contact your local **Master Builders Solutions** representative.



We create chemistry

MasterPolyheed[®] 8114

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