

High performance super plasticizer for self compacting concrete

DESCRIPTION

HI-CONTECH FX5, is a super plasticizer based on polycarboxylic technology where high early and ultimate concrete performance with self compacting properties is need.

STANDARDS

ASTM C-494 Typ F ; TS EN 934-2

FIELD OF APPLICATION

HI-CONTECH FX5 can be used on all types of high quality concrete where self compacting properties with high mechanical strength and significantly lower w/c ratio is need.

Due to it's high quality characteristics, HI-CONTECH FX5 is particularly indicated for use in ready-mixed concrete transported by mixer trucks where work and climate conditions require workability retention.

ADVANTAGES

HI-CONTECH FX5 is a carboxylic ether polymer based super plasticizer and within a dosage range from 0.6 – 2.0 %, the following can be obtained;

- * Concrete with an improved w/c ratio (water reduction of 25 – 40 %)
- * Waterproofing concrete.
- * Non segregation, fluid, plastic concrete without bleeding.
- * Slump – workability retention.
- * Self compacting concrete.
- * Homogeneous and cohesive concrete.
- * Easily pumped concrete with good workability and with good finishing.
- * Durable and highly impermeable concrete.
- * Improved properties of fresh and hardened concrete.
- * Concrete with high early and ultimate strengths.

COMPATIBILITY

- HI-CONTECH FX5 is compatible with the following;
- * All Portland and other types of cement in accordance with ASTM standards.
 - * Air entraining admixtures.
 - * Silica fume..
 - * Fly ash.
 - * Polypropylene and steel fibers.

Do not use with other types of concrete admixtures.

DOSAGE AND USE

The dosage of HI-CONTECH FX5 is 0.8 – 2.0 kg for every

100 kg of cement, to be added in mixer with the last mix water. (after 70% introduction of the mix water) The addition of admixture on dry aggregates and cement is not recommended since it lowers the plasticizing and water reducing effect.

WORKABILITY

Workability time after the use of HI-CONTECH FX5 in the concrete depends on the applied dosage, type and dosage of cement and aggregates and ambient temperature. In general, the extended workability time after the addition of the admixture, is about < 90 min. at 20°C The loss of workability is gradual and only practical site tests will specify the workability.

PRECAUTIONS

Use gloves and avoid contact with eyes and skin. Consult a physician if contact with eyes and skin.

PACKING AND STORAGE

HI-CONTECH FX5 is available in bulk, 30 kg and 250 kg drums, 1200 kg plastic cubitainers. If stored in between +5 °C / +25 °C in its original packaging shelf life is more than 1 year.