

Mid range plasticizer and water reducer for concrete

DESCRIPTION

CEMCON 405, is formulated to obtain high early strengths and accelerates the setting time of the concrete poured in cold climates. It also lowers the w/c ratio and improves the properties of fresh and hardened concrete.

STANDARDS

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

FIELD OF APPLICATION

CEMCON 405 can be used on all types of high quality concrete where a good early mechanical strength and significantly lower w/c ratio is need.

- * Ready mix concrete.
- * Pumped concrete.
- * Concrete mixed on site.

ADVANTAGES

CEMCON 405 is a mid range plasticizer and within a dosage range from 0.8 – 1.5 %, the following can be obtained;

- * Concrete with an improved w/c ratio (water reduction of 15-20 %)
- * Waterproofing concrete.
- * Non segregation, fluid, plastic concrete without bleeding.
- * 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 initial and final strengths.
- * Accelerated setting time of concrete.

COMPATIBILITY

CEMCON 405 is compatible with the following;

- * All Portland and other types of cement in accordance with ASTM standards.
- * Air entraining admixtures.
- * EXPAN non shrink agents.
- * Fly ash.
- * Polypropylene and steel fibers.

DOSAGE AND USE

The dosage of CEMCON 405 is 0.6 – 1.4 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 CEMCON 405 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 40 – 120 minutes 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

CEMCON 405 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.