

Consistency protected hyper plasticizer for high-performance concretes

## DESCRIPTION

METIXA 100, has been developed for the production of high-performance concrete, consistency protected, highly reducing water, phosphonates modified polycarboxyl based, superplasticizer concrete admixture.

## STANDARDS

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

## FIELD OF APPLICATION

- \* Processability and long-term consistency of protection desired high in strength concrete
- \* Ready-mixed concrete, concrete construction.
- \* Depending on the dosage of cement hydration heat balances to keep the optimum range.

## ADVANTAGES

- METIXA 100 is a carboxylic ether polymer based super plasticizer and within a dosage range from 0.3 – 3.0 %, 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

METIXA 100 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.

## MECHANICAL STRENGTHS

Compared to a concrete without the admixture, the use of METIXA 100 in concrete will result in an increase in the mechanical strength, in proportion with water reduction, in some cases, by 100%.

## DOSAGE AND USE

The dosage of METIXA 100 is 0.3 – 3.0 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 METIXA 100 in the concrete depends on the applied dosage, type and dosage of cement and aggregates and ambient temperature. The loss of workability is gradual and only practical site tests will specify the workability.