F -10

Description
The additional F - 10 is a ready to use aqua solution of modified hydroxyl carboxylic acid salts. Does not contain flammable and E - B is 1.2. The F - 10 is the most perfect recipe for a reduction in the additional water. It has been tested and used worldwide in hundreds of millions of cubic meters of concrete.

Uses
The F - 10 gives us concrete with low water content (usually a reduction 10-15%) greater strength and durability. It is used in ready mix plants and construction companies for concreting surfaces unarmed or reinforced concrete.

Benefits
The use of F - 10 gives us more concrete plasticity, improved workability, easier installation and finish than concrete without an additive. The concrete with F - 10, has high compressive strength, bending strength of all ages.

This implies the following advantages:
Reduction of water causes increased resistance in 20-40% of all ages.
• Economy in the mix to improve endurance.
• Reduce the penetration of water of hardened concrete due to the high density it acquires.

For the same proportion of cement - water
• Better control of the hydration effect implies increasing the strength by 10-20% in all ages.
• Improved flow of concrete (3 – 6 cm.). Better response to vibration and finishing.

Chemical Action
The F - 10 eliminates electrostatic trend of the cement particles and therefore need less water in the mixture, having greater plasticity and higher strength at all ages.
The F - 10 acts to improve the speed and degree of hydration of cement in concrete. The coupling of water reduction and hydration control optimists the speed of formation of cement paste - water that hangs materials of concrete between them.

Controlled speed the creation of cement paste - water, we give a reduction of water and internal consistency of the mixture, reducing sweating and separation, while improving workability and ease of installation and finishing of concrete.

**Dosage**
Excellent results are obtained using for the ratio of 1 - 1.5% by weight of cement, depending on everything from working conditions.

**Package**
F - 10 is available in 11 tons tanks or 220 kg drums or 20 kg cans.

**Mechanical Specifications**
The concrete should be designed based on ACI 211 / 70. The additive lowers the water and laminated it must comply with the requirements ASTM C - 494 Type A. The additive should be the F - 10 and must be used according to manufacturer specifications mixing.