

POLITON 612 / 612 S / 612 W

High Range Water Reducing Concrete Admixture

DESCRIPTION

POLITON 612 / 612 S / 612 W, is a ready to use polycarboxylate based superplasticiser, high range water reducing admixture. Lowers the water/cement ratio and improves the properties of fresh and hardened concrete.

FIELD OF APPLICATION

- In all ready-mixed concrete classes described in TS EN 206 and TS EN 13515
- Low water/cement ratio concrete applications
- Impermeable concrete applications
- In the production of self-compacting and self consolidating concrete.
- Smooth surface applications such as bridge/viaducts
- In construction of all building elements

ADVANTAGES

- POLITON 612 / 612 S / 612 W, superplasticizer concrete admixture provides workability to fresh concrete without causing segregation
- Let the concrete mixing designs to be formed that have low water/cement rates
- Increases hardened concrete endurance against environmental effect conditions
- Does not include chloride ions. Does not cause paraphernalia corrosion
- It provides long term consistency protection to fresh concrete. This allows the fresh concrete mix to be transported over long distances.

USE

- POLITON 612 / 612 S / 612 W, is ready to use as liquid for fresh concrete mix. It is recommended that it is added to mixing water at ready-mixed concrete production station.

USE OF WEATHER CONDITIONS

- | | |
|----------------------------|---------------|
| • The summer months | POLITON 612 S |
| • Winter months | POLITON 612 W |
| • Transition months | POLITON 612 |

STANDARDS

- | | |
|--------------------------|---|
| • POLITON 612 S : | TS EN 934-2 Table 11.1,11.2
ASTM C 494 Tip G |
| • POLITON 612 W : | TS EN 934-2 Table 3.1, 3.2
ASTM C 494 Tip F |
| • POLITON 612 : | TS EN 934-2 Table 3.1, 3.2
ASTM C 494 Tip F |

CONSUMPTION

It is recommended that the total binder existing in every type of concrete class mixing design described in TS EN 206 and TS EN 13515 standards is used between the rates of 0,5% and 2,0% by weight. This rate changes on concrete mixing design according to requested air quantity, cement features used, aggregate, mineral additive, water components, heat and also according to preferred fresh and hardened concrete features. Therefore, laboratory tests should be performed accordingly with preferred features and usage rate should be determined.

Since the air quantity to be entrained to concrete will increase additive dosage to be used, it is expected that concrete strength will fall.

STORAGE CONDITIONS AND PACKAGING

The product must be stored above 5 °C. In case the product freezes it should be carefully mixed mechanically after thawing for restitution.

It is for sale as 1000 kg plastic cubitainers and bulk.

COMPATIBILITY

POLITON 612 / 612 S / 612 W, is compatible with Extraton, Airtion, Antiton, Retarton, Proofton, Specialton Series POLİSAN Construction Chemicals. For its compatibility information with other additives, one should consult Polisan Construction Chemicals technical support unit. If one is to use more than one additive substance on mixing design, each substance should be added to the mix separately

It can be used with all cement types compatible with POLITON 612 / POLITON 612 S / POLITON 612 W, TS EN 197-1 standard and all mineral additives. . For use on special types of cement, it is recommended to consult Polisan Construction Chemicals technical support unit.

SAFETY INFORMATION

The additive must be kept away from the skin and eyes. In case of any contact, it must be washed with water. When contacted with eyes one must immediately rinse it with water and medical support must be taken. Protective goggles / gloves / mask should be used during the usage of the admixture.

The Material Safety Data Sheet (MSDS) should be read for detailed information.