

## AM PCE ST-701

Polycarboxylate-based, high early strength, maintain high slump

### DESCRIPTION

**AM PCE ST-701** is a new generation superplasticizer based on polycarboxylate. This product is designed to provide the highest performance of water reduction, maintain high slump, excellent slump retention without affecting initial setting time and enhance the finishing characteristics of concrete. The **AM PCE ST-701** specially engineered polymer molecules are perfectly suited for flatwork and slabs.

**AM PCE ST-701** was designed to produce super high-strength concrete, flowable and selfcompacting concrete in a variety of applications.

### BENEFITS

- Flowable concrete with the lowest water/cement ratio without segregation or bleeding
- Allows reduction of curing cycles – i.e. time or temperature
- Possibility of elimination of steam curing
- Less vibration required even in case of congested steel reinforcement
- Less labour required
- Improves concrete surface finish and texture
- Compared to traditional superplasticisers, the addition of **AM PCE ST-701** will improve the physical properties and thus the durability of concrete
- Early and ultimate compressive strength
- Early and ultimate flexural and tensile strength
- E-modulus
- Adhesion to reinforcement and prestressed steel
- Resistance to carbonation and chloride ion attack of concrete.
- Resistance to aggressive atmospheric conditions

- Risk of shrinkage
- Creep

### APPLICATIONS

- Concrete with less water content than with conventional admixtures
- High flowability concrete
- Highly durable concrete
- High strength concrete
- Precast concrete
- Self compacting concrete
- Mass concrete

### DIRECTIONS FOR USE

The excellent dispersion properties of **AM PCE ST-701** make it the ideal admixture for precast and premixed concrete where low water cement ratios are required. This property allows the production of very high early and high ultimate strength concrete with minimal voids and therefore optimum density. Due to the strength development characteristics, the elimination or reduction of steam curing in precast works may be considered as an economical option.

**AM PCE ST-701** is a ready-to-use admixture to be added to the concrete mix as a separate component. Optimal concrete plastising effect (and thus maximum water reduction) is obtained if **AM PCE ST-701** is poured into the concrete mix right after the addition of the first 50-70% of the mixing water.

Avoid adding the admixture to the dry aggregate or sand. **AM PCE ST-701** is not compatible with admixtures containing melamine or naphthalene sulphonates.

## DOSAGE

The normally recommended dosage rate is between 0.6 - 1.5 litres per 100kg of cement (binder) depending on specific mix design and requirements. Other dosages may be recommended in special cases according to specific job conditions

## APPLICABLE STANDARDS

**AM PCE ST-701** meets or exceeds ASTM C-494, Types A and F.

**AM PCE ST-701** does not contain calcium chloride.

## PACKAGING

**AM PCE ST-701** comes in 1000 Litres container, 200 Litres drum or 20 Litres pail.

## SHELF LIFE

**AM PCE ST-701** admixture has a minimum shelf life of 12 months.

## SPECIFICATIONS

From/Colour	Liquid/Light brown
Base	Polycarboxylate-based
Dry content (%)	(25.0 ± 1.0)
Base	Polycarboxylate-based



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