

## TECHNICAL DATA SHEET

### **RITEMIX PC 100**

#### ***High-Performance PC Polymer-based Admixture 3,000-4,000 psi***

##### **PRODUCT DESCRIPTION:**

**RITEMIX PC 100** is a clear, new-generation admixture based on Polycarboxylate polymers. Its high water-reducing property ensures good workability and high early compressive strength. Formwork and shuttering can be removed early due to its accelerated hardening properties.

##### **CUSTOMER BENEFITS:**

- Produces free-flowing concrete without segregation and bleeding.
- Gives substantial and economical cement savings without strength or workability loss.
- Produces self-compacting concrete without segregation.
- Good slump retention for a longer time.
- Allows reduction of added water which increases concrete density and reduces porosity, resulting in improved water penetration resistance.
- Reduces concrete segregation thus improving surface finish.
- Reduces or eliminates the need for compaction thus saving time and money.
- Superior performance than the conventional superplasticizers.

##### **AREAS OF APPLICATION:**

- As a superplasticizer to produce fluid concrete requiring little or no vibration during placing e.g. where reinforcement is heavily congested.
- As a highly efficient water reducer without loss of workability resulting in reduced permeability and accelerated early strength gain.
- On-site application
- 4,000 psi compressive strength concrete requirement
- Ready mix applications
- Precast applications
- Pre-stressed concrete

##### **INSTRUCTIONS FOR USE**

###### **DOSAGE**

- 0.8 to 1.2% per kg cement for high workability concrete.
- The exact dosage required is best established by site trials.

###### **DISPENSING**

The correct quantity of **RITEMIX PC 100** should be measured by means of a recommended dispenser. Normally, the admixture should then be added to the concrete with the mixing water to obtain the best result.

###### **WORKABILITY**

The addition of **RITEMIX PC 100** will produce flowing concrete at the same water/cement ratio as untreated concrete requiring little or no vibration during placement.

###### **CURING**

As with all structural concrete, good curing practices should be maintained, particularly in situations where an overdose has occurred. Spray with **CURESIL** curing compound.

##### **TECHNICAL DATA**

Standards	complies with ASTM C494 Type F
Specific Gravity	1.05 ± 0.005
Air entrainment	<1% additional air is entrained at normal dosage
Compatibility with cement	Can be used with all Portland cement. For special cement, contact MPCTI Technical Dept.
Compatibility with other admixtures	<b>RITEMIX PC 100</b> should not be premixed with other admixtures.
Compressive Strength	Substantial reduction in water/cement ratio will result in a significant increase in compressive strength without the loss of workability.

##### **PACKAGING**

**RITEMIX PC 100** is available in gallon, 20-liter carboy, and 200-liter drum.

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#### **STORAGE AND HANDLING**

**RITEMIX PC 100** has a minimum shelf life of 15 months when stored in a dry place in the original unopened containers away from direct sunlight.

#### **PRECAUTIONS**

##### **HEALTH AND SAFETY**

Suitable protective gloves and goggles should be worn. Splashes on the skin should be removed with water. In case of contact with eyes rinse immediately with plenty of water and seek medical advice.

**RITEMIX PC 100** is water-based and non-flammable. Refer to the latest Safety Data Sheet (SDS) for comprehensive safety information on the proper handling of this product.

##### **WARRANTY AND DISCLAIMERS**

*The information provided in this technical data sheet is based on our best knowledge and testing methods. Any product use outside of specifications or improper storage or installation voids any warranty. Users are encouraged to conduct their own testing to assess product suitability. Always consult the product's safety data sheet (SDS) for safety guidelines and follow recommended precautions. We reserve the right to update this data sheet without notice, and users should ensure they have the latest information.*