

## TECHNICAL DATA SHEET

### RITEMIX PCR 100

#### High Range Water Reducing and Retarding (Type G) 3,000 to 4,000 psi

#### PRODUCT DESCRIPTION:

RITEMIX PCR 100 is a clear new-generation admixture based on polycarboxylate polymers. Its water-reducing property ensures good workability and high and early compressive strength. It is an effective cement dispersant and fluidifies compared to conventional superplasticizers.

#### 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 superplasticizers 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.
- Ready mix applications
- Precast applications
- Prestressed concrete

#### INSTRUCTION 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 PCR 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 PCR 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 CURE SIL curing compound.

#### TECHNICAL DATA

Standards	Complies with ASTM C494 Type G
Form	Liquid
Color	Amber to light brown
Specific Gravity	1.035 ± 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	RITEMIX PCR 100 should <u>not</u> be premixed with other admixtures.
Compressive Strength	Substantial reduction in the water/cement ratio will result in a significant increase in compressive strength without the loss of workability.

#### PACKAGING

RITEMIX PCR 100 is available in 200-liter drum.

#### STORAGE AND HANDLING

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

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#### PRECAUTIONS

##### HEALTH AND SAFETY

Suitable protective gloves and goggles should be worn.

Splashes on the skin should be removed with water.

**RITEMIX PCR 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.*