

## TRI- MIX PR 645

### High Range, Water-Reducing and Set Retarding Admixture for Concrete

#### Description

**Tri- Mix PR 645** High quality super plasticizer with a set retarding effect for producing free-flowing concrete in hot climates. Also, high water reducing agent for promoting high early and ultimate strengths.

**Tri- Mix PR 645** is a ready to use brown liquid concrete admixture based on selected and good purified special synthetic chemicals and instantly dispersible in water, which allow mixing water to be reduced considerably and concrete strength to be enhanced significantly.



#### Uses

**Tri- Mix PR 645** can be used with all types of cement to achieve the following properties:

- Ready-mixed concrete.
- Long-distance transport.
- Pumped concrete.
- Casting in hot climates.
- Walls and columns Slender components with densely packed.
- reinforcement Slabs and foundations, Beams and ceilings.

#### Advantages

- Improves workability without increased water.
- Delayed setting with longer workability.
- Reduce more than 20 % of water without loss of workability.
- Reduced shrinkage and creep.
- Improved durability.
- It produces good cohesion; risk of segregation and bleeding is minimized.
- Is chloride free, and safe in reinforced and pre-stressed concrete.

#### Technical Data @°25c

DISCRETIONS	VALUE
Appearance	brown liquid
Density	1.20 ±0.01 kg / L
Chloride content	NIL
Compatibility	All types of Portland cement

#### Factory & Head Office:

6 October City - 4th Industrial Zone - Al Oula Industrial Zone Plot No.: 14  
 Tel.: (002) 011 195 48267 - Sales: (002) 010 007 88817 - (002) 011 184 87597  
 Technical Support Call : (002) 011 184 87880 - Email: sales@tichem-eg.com

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### Standard Specification

Tri- Mix PR 645 Complies with ASTM C494 Type G, & BS –EN934

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### Directions for use

Tri- Mix PR 645 should be added to the mix with the gauging water (after adding 50 - 70% of water), also it can also be added to the water prior to mixing. Never add Tri- Mix PR 645 to dry cement.

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### Rate of use

Tri- Mix PR 645 can be used at the dose rate (0.80 - 2.5)% Liter /100 kg cement, depending on requirements concerning workability and strength. It is recommended that trial mixes be conducted to determine the exact dosage rate required where the dose depend on the require application and W/C ratio type of cement, aggregates and on temperature Workability loss is dependent on temperature, on the type of cement, the nature of aggregates, the method of transport and initial workability. It is strongly recommended that concrete should be properly cured particularly in hot and dry climates.

### Effects of overdosing

Over dosage increases the retardation and workability, the effect level will depend on the particular Mix design and overdose level.

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### Storage

12 months in dry conditions at temperatures between +5 °C and +45 °C.

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### Package

Drum 200 liter &1000 liter / or as customer requirements.

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### Precautions

Tri- Mix PR 645 is non - flammable and non-toxic, wash any splashes to the eyes immediately with water.



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