

# Technical Data Sheet

## WELL MIX 700 HES

PCE Base High Performance & High Early Strength ( HES ) Super Plasticizer / Admixture

### DESCRIPTION

WELL MIX 700 HES is a new generation high performance water reducer with highly early strength effect is combo like molecular structure with either type side chain in its molecule structure. The mechanism of action with PCE is double enforced efforts of electrostatic repulsion & steric hindrance on cement particles. This double effect causes more dispensability, higher water reduction, more workability & its longer retention in concrete mix.

### SPECIFICATION

Complies with IS 9103 : 1999, ASTM C - 494 Type 'F' & 'G'.

### TECHNICAL DATA

Form	Light brownish liquid.
Chemical Base	Poly- Carboxylate Ether / PCE.
Specific Gravity	1.10 ± 0.02 ( @ 27°C ± 3 )
Chloride Content	Nil (No added chloride but may be found in traces coming from process water).
pH Value@27°C	≥ 6
Workability Retention	It produces collapsed slump concrete.
Compatibility	Compatible with all types of Portland cements, sulphate Resisting Cements (SRC), micro silica & fly ash.

### USES

- \* Early strength concrete.
- \* High volume slag concrete.
- \* Ready mix concrete.
- \* Highly slump Concrete.
- \* Highly used in self compacting concrete ( SCC ).
- \* High performance concrete.
- \* Pumping concrete.
- \* Precast concrete.

### ADVANTAGES

- \* Concrete of similar workability can be produced with 30-35% less water.
- \* Chloride free: safe in pre stressed concrete production.
- \* High early strength gains.

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## DOSAGE

The actual amount required to achieve a particular result will vary with the type of cement, the size, shape and grading of aggregates. The total mix design for high strength, water reduced concrete, the dosage range is from 0.5%- 1.0% by weight of cementitious material.

\* For concrete of high workability, very low water/ cement ratio and for self compacting concrete 1.0- 2.0 % by weight of cementitious material. Actual dosage to be finalized on the basis of site trials. Variations in slump loss and setting characteristics are function of the amount of admixtures used, cement characteristics and mix design selected. An increase in concrete temperature will cause an increase in slump loss and decrease in initial set time.

\* Please note that initial-final setting time, curing time & compressive strength are related to atmospheric temperature during the time of application. Low temperature will extend the above properties & vice a versa.

## DISPENSING

The measured quantity of WELL MIX 700 HES is added along with the gauging water. In case of batching plant, the correct dosage should be used with about 18-20% of the total water in the last phase after the mix.

## DIRECTION FOR USE

Where the main requirements are to save, the cement & reducing the water content. Initial trials should be made with normal concrete mix designs. The addition of the admixture will allow the reduction of water from the mix while first maintaining workability. After initial trial, minor modification to the overall mix design may be made to optimize performance, where the main requirement is to provide high workability concrete.

## EFFECT OF OVER DOSAGE

**A severe over dosage will result in**

Increase in the workability of concrete.

Retardation of initial setting time.

Does not affect the ultimate concrete strength.

Slight increase in air entrainment.

## HEALTH & SAFETY PRECAUTIONS

As with all chemical products, caution should always be exercised.

Protective clothing's such as gloves and goggles should be worn.

Treat any contact to the skin or eyes by washing with fresh water immediately.

## STORAGE & SHELF LIFE

WELL MIX 700 HES has a shelf life of one year from the date of manufacture in unopened original packing, protected from extremes of heat, cold and stored under shade.

## PACKING

WELL MIX 700 HES is available in 1 kg, 5 kg, 20 kg, 230 kg Drum/ Barrel & Bulk Tanker Load.

## OTHER PRODUCT CATEGORIES AVAILABLE

- \*Concrete Admixtures / Plasticizers.
- \*Accelerators & Retarders.
- \*Foaming / Air Entraining Admixtures.
- \*Corrosion Resistant Admixtures.
- \*Micro Silica.
- \*Building & Joint Sealants.
- \*Industrial Floorings & Coatings.
- \*Waterproofing & Insulation.
- \*Grouts & Anchors.
- \*Pump primer / Pumping Aid.
- \*Curing Compounds.
- \*Mould Releasing Agents.
- \*Repairs & Restoration.
- \*Pipeline Coatings.

## CORPORATE OFFICE

### WELL KNIT CHEMICAL

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