

# [Product Name]

Set Retarding and Water-Reducing Concrete Admixture for RMC

## I. Description

[Product Name] is a liquid superplasticizing admixture that improves the workability of RMC where hot weather, long pump lines, delays or extended time for setting are expected.

[Product Name] also reduces concrete's water to cement ratio resulting in a dramatic increase in its strength.

It contains no chloride or other chemicals that may corrode concrete or steel.

## II. Uses

Addition of [Product Name] to concrete is recommended for use in the following:

- High rise construction
- Airport runways
- Roads
- Bridge decks
- Dams
- Jetties
- Wharves
- Pre-stressed beams
- Bank vaults
- Other structures that require high-strength concrete, and where hot weather, long pump lines, delays or extended time for setting are expected.

## III. Advantages

Compared to plain mix, concrete with [Product Name] has better workability and increased strength.

Concrete with [Product Name] has several advantages over plain mix:

### 1. Longer setting time.

- Adding [Product Name] to the mix delays the setting time of concrete and improves its workability where hot weather, long pipe

lines, delays or extended setting time are expected.

### 2. Lower water cement ratio resulting to increased strength.

- Compared to plain mix, concrete with [Product Name] has a lower water to cement ratio. The result is a significant increase in concrete's compressive strength.
- The following data shows the performance of [Product Name] compared to plain mix.

## Materials Used

	Plain Mix	With [PRODUCT NAME]
Cement (kg)	360	360
Dosage (L)	-	1%
Actual Water (L)	230	165
Actual Slump (inches)	7"	7"
Water Cement Ratio	0.638	0.458

## Results

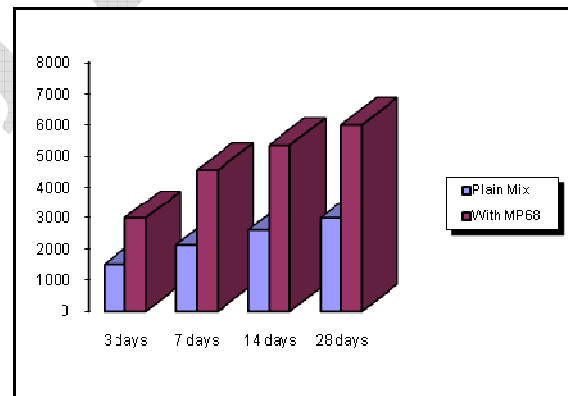


Figure 1. Illustration of the difference in the concrete's compressive strength between plain mix and concrete with [Product Name]. The difference between the two becomes more significant over time.

### 3. Improved workability.

- [Product Name] reacts with cement to improve concrete's workability. Concrete is then easier to vibrate or compact eliminating honeycombs.

## IV. Dosage

Recommended dosage of the admixture is 0.5-1.2% by the weight of the cement. Dosage may vary depending on specific building requirements, the quality of the cement and aggregate, water to cement ratio, and ambient temperature.

To obtain optimum mix, creation of trial mixes prior to actual usage is recommended.

## V. Application

**[Product Name]** may be added to the mixing water or to freshly-mixed concrete.

Adding the admixture to dry concrete or aggregate is not recommended as its superplasticizing and water-reduction properties are decreased.

## TECHNICAL DATA

### Material Composition

Liquid blend of polynaphthalene sulfonate and highly purified lignin dispersing agents. Contains no chloride or other corrosive chemicals.

### Color

Dark brown

### Specific Gravity

1.13 +/- 0.02

### pH

7-10

### Packaging

Available in 208 liter drums and in bulk.

### Storage Conditions

Should be stored at moderate temperatures in sealed original drums.

### Shelf Life

1 year if unopened.

### Standards

Meets the ASTM C494 standards for water-reducing admixtures.

### Safety Precautions

**[Product Name]** must be used with hand gloves, safety goggles and other safety gear.

In case of skin contact, skin must be immediately flushed with water for at least 15 minutes. In case of contact with eyes, follow the same procedure and get medical help. If ingested, call a physician immediately.