



# POWERMIX 400 S

**HIGH RANGE WATER REDUCING / SET RETARDING / SUPER PLASTICIZING CONCRETE ADMIXTURE**

## Product Description

**POWERMIX 400 S** is a high range water reducing, set retarding super plasticizer that decreases water/cement ratio to increase workability and mechanical properties of concrete.

## Advantages

- Increases ultimate strength of concrete.
- Improves workability of the concrete.
- Extends the casting and placing time of concrete.
- Decreases risk of segregation.
- Prevents cold joints during concrete production with long casting time.
- Provides smooth surface finish for concrete in the formwork without any segregation.
- **POWERMIX 400 S** is chloride free.

## Area of Use

- Ready mixed concrete production
- Hot weather concreting.
- Long distance concrete transportation.
- Production of various types of concrete such as reinforced, unreinforced, light or normal concrete
- Large scale concrete projects
- Mass concrete and roller compacted concrete applications.

## Consumption Dosage

**POWERMIX 400 S** is used 0,5-1,5% of total binder weight.

## Method of Application

Aggregates and the binder (cement-silica fume-fly ash-blast furnace slag) should be mixed until obtaining a homogenous mixture.

After adding 70% of mixing water into the dry mixture, **POWERMIX 400 S** should be added into the rest of water and should be mixed properly.

## Compatibility with other admixtures

**POWERMIX 400 S** can be combined with the following admixtures. Laboratory tests should be carried out before use.

- Dayplus Air
- Dayplus Retarder
- Dayplus WP
- Dayplus Dynamic

## Packaging

- 30 kg plastic pail
- 250 kg drum
- 4000 kg container
- Bulk

## Storage and Shelf Life

Must be stored at temperatures between +5°C and +35°C. Under proper storing conditions, the product's shelf life is 12 months from production date if kept in original packaging unopened and undamaged. Packaged products must be shaken before use.

## Warning

Concrete mix design and admixture dosage should be determined by laboratory tests according to the concrete class and properties.

## Safety Measures

Use protective clothes, gloves, glasses and mask compatible with health and safety regulations during the application. Avoid direct contact with eyes and skin during storing and application. If case of contact wash off thoroughly with soap and water. If ingested seek medical attention immediately. Store away from all foodstuffs. Keep away from children. For detailed safety information please consult the product's Material Safety Data Sheet.

## Technical Properties

Chemical Base	Polymer based
Color, Appearance	Brown Liquid
pH value	6-10
Density	1,17 ± 0,03 g/cm <sup>3</sup>
Chloride Content (%)	<0,1 (EN 480-10)
Alkaline Content (%)	<10 (EN 480-12)
Compliance with Standards	ASTM C 494 Type G TS-EN 934-2 Table 11.1 and 11.2

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