# ABS-Con-071

## High Range Water Reducer / New Generation Superplasticizer Concrete Admixtures for Very Early Strength Concrete Application

### Uses:

**ABS-Con-071** is ideal for use in any concrete where it is desired to minimize the water/contentious ratio yet maintain workability, **ABS-Con-071** is primarily intended for use in Pre-Cast Concrete, but may also be used in other applications self-consolidating concrete, other uses maybe simplify as below:

- Normal- High strength Concrete / Related to Admixture Dosage in Concrete.
- Slump and High Flow Concrete.
- Production of concrete that can easily set to densely reinforced concrete elements.
- Production of various types of concrete such as reinforced, un-reinforced, light, or normal concrete.
- Tunnel Forms application where Very Early Strength is Required for Early Mold Release.

### Advantages:

- Fine and Coarse Aggregates Clay Tolerance .
- Increase the Durability of Concrete
- Lower viscosity, thus; supply easy pumping- ability for supplied concrete.
- Medium to high water reduction upon Admixture Dosage.
- Improve concrete's early and ultimate compressive and tensile strengths and impermeability to water.
- Low Air Content
- With its high range water reducing capabilities, enables concrete production with low water / cement ratio.
- It optimize Cement Consumption.
- Supply Perfect Concrete Surface Finish.
- It can be used with Different Binder Filling Materials , e.g.. GGBFS , Silica Fume , Fly Ash.

**Packaging**: 1000 Lit. IBC

**Technical Properties:**

Color: Whitish Liquid
Ph: 3-4.5
Density: 1.09+-0.01 gm/cm3
Chloride Content: Max. 0.1 %
Alkali: < 5

**Consumption:**

**ABS-Con-071 superplasticizer** addition rates can vary with type of application but will normally range from 0.5-1.5 % Kg of Admixture by Wt. of Cementation Binder (Cement, Fly Ash, Silica Fume and other cementation additives).

In most instances, the addition of (500 g, -1500 gm of admixture to cementation will be sufficient.
At a given water/cementitous ratio, the slump required for placement can be controlled by varying the addition rate. Should conditions require using more than the recommended addition rates, please consult Technical Dept. in Shown contact information's.
Dosage requirements may also be affected by mix design, cementation content, and aggregate gradations. Technical Dept. for more information and assistance.

**Addition Method:**

**ABS-Con-071** should be added to the concrete with the mixing water or after the addition of water to the binder to wet it first to achieve the best performance in Concrete Mix.

## Limitations:

- Aggregate SSD ( Moisture Content shall be taken in consideration of mix design Proportions) when operation the production line.
- Always Do the Calibration for your Weighting Tools to avoid any excessive or decrease the Concrete mix Design Proportion Automatically without your knowledge.
- Always Conduct Pre- Mixed Trials Before inserting the product in your production line to comply and reach the best results

**Over Dosage Consumption may:**

1- It significantly increases workability.
2- It will lead to segregation with high water addition amount.

## Compatibility:

**ABS-Con-071** can be used with all types of Portland cement and cement replacement materials. it should not be used in conjunction with other admixtures unless technical department approval is obtained.

## Standards:

**ABS-Con-071** Comply with the Standard ASTM C494 Type E .

## Cleaning:

**ABS-Con-071** can be washed with fresh cold water.

## Storage:

**ABS-Con-071** shelf life is 12 months if stored at temperatures between 5°C and 40°C in shaded area/s . If these conditions are exceeded, Technical Department should be contacted for advice.

## Health and Safety:

**ABS-Con-071** is not classified as hazardous material. it should not come into contact with skin and eyes. In case of contact with eyes wash immediately with plenty of water and seek medical advice promptly.

**The information and technical data contained in this bulletin are based on our own most updated knowledge and experiences; however, they do not amount to a guarantee.**

**We always Strongly recommend doing field tests trials to check the admixture performance with used Concrete Raw materials (Cement/Sand and Coarse aggregates and other materials.**

**Our Technical Department is at your disposal for further studies and will give its direct assistance with the use of our products, whenever needed.**