ABS-CON-245

High Range Water Reducer / New Generation Superplasticizer Concrete Admixtures

Special combination of Poly-Carboxylate Ether Admixture Long and short formulated polymer chain Technology /High Range Water Reducer, specially formulated to produce high Concrete Compressive strength lined High Water Reduction and workability Retention in Concrete Mixture.

Uses:

Due to Its High Molecular Weight and steric reaction , **ABS-Con-245** is ideal for use in any concrete where it is desired to minimize the water/contentious ratio yet maintain workability where to get High Compressive Strength for Concrete Mixture Is Required, **ABS-Con-245** is primarily intended for use in ready-mix 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, cement quantity and type in m3 in the 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, or normal concrete.
- Cast in-Situ High Strength Concrete.

Advantages:

- Increase Durability ,quality of fresh and hardened Concrete
- Medium to high water reduction upon Admixture Dosage.
- Improves 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.
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Packaging: 1000 Lit. IBC,200 Lit. Drum

Technical Properties:

Chemical Base: 6C PCE Dispersion with special additives.

Color: Mid.-Dark Brownish Liquid.

Ph: 4.5-5.5

Density: 1.08+-0.01

Chloride Content: Nil

Consumption:

ABS-Con-245 superplasticizer addition rates can vary with type of application but will normally range from 0.6-1.6 % Kg of Admixture by Wt. of Cementitious Binder (Cement, Fly Ash, Silica Fume and other cementitious additives).

As much as cement content increase, lower Admixture dosage may applied.

In most instances, the addition of (600 g, -1600 gm of admixture to cementitious will be sufficient.

At a given water/cementitious 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.

Dosage requirements may also be affected by mix design, cementitious content, and aggregate gradations. You can contact Technical Dept. for more information and assistance.

Over Dosage Consumption may:

1- Will lead to increase Concrete Viscosity especially with High cement content.
2- possibility to fresh concrete mix segregation in the condition of increase water content.

Addition Method:

ABS-Con-245 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.

Compatibility:

ABS-Con-245 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-245 Comply with the Standard ASTM C494 Type A ,F and G Related to Admixture Addition ,Cement Quantity and type , Fine and Coarse Aggregate Quality and weather Conditions.

Cleaning:

ABS-Con-245 can be washed with fresh cold water.

Storage:

ABS-Con-245 shelf life is 12 months if stored at temperatures between 5°C and 40°C in shaded area/s . If these conditions are exceeded, Hard Stone Technical Department should be contacted for advice.

Health and Safety:

ABS-Con-245 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.