



Conplast® SP430SRV(H1)

Superplasticising slump retaining admixture

Uses

Conplast SP430SRV(H1) is used where a high degree of workability is required and also as an aid to workability retention where delays in transportation or placing are likely or when high ambient temperatures cause rapid slump loss. To facilitate production of high quality concrete of improved durability and water tightness.

Advantages

- **Speeds Construction** : Increased workability reduces placing time, equipment and labour element.
- **Self Compacting** : Conplast SP430SRV(H1) modified concrete is highly fluid and needs little or no compaction.
- **Reduced Permeability**: Better dispersion, reduces porosity and improves water penetration resistance.
- **Reduced Segregation**: Increased cohesion minimises segregation and bleeding, improving surface finish.
- **Longer Placing Time**: Conplast SP430SRV(H1) gives greater usable life of concrete at high ambient temperatures because of its unique workability retention potential.
- **Improved Pumpability**: Increased workability and cohesion aids pumping by reducing line friction, dry packing and slump loss due to temperature.
- **Chloride Free**: Safe in prestressed, reinforced or marine concrete and compatible with sulphate resisting cement or marine aggregate.

Standards Compliance

Conplast SP430SRV(H1) complies with the requirement of ASTM C 494-80 as a Type G High Range Water Reducing and Retarding Admixture.

Description

Conplast SP430SRV(H1) is a dark brown liquid based on a sulphonated naphthalene polymers. The plasticising action of Conplast SP430SRV(H1) enables the production of high workability concrete, which maintains the workability for prolonged periods even at high ambient temperatures.

Technical Support

The company provides a technical advisory service supported by a team of specialists in the field.

Properties

Specific Gravity: 1.240 - 1.260 at 30°C

Chloride content: Nil to IS:456

Air entrainment over Control: Less than 1.5%

Compatibility: Conplast SP430SRV(H1) is generally compatible with other Fosroc Admixtures but it is recommended that all admixtures be added to concrete separately.

Conplast SP430SRV(H1) can be used with all types of Portland cements. For advise on special cements consult local Fosroc office.

Workability: Conplast SP430SRV(H1) is primarily a highly efficient superplasticiser will give large increase in workability without significant changes in compressive strength.

Compressive strength: Conplast SP430SRV(H1) may be used to produce concrete with substantial water reduction resulting in a considerable increase in compressive strength.

Mix Design: As with all admixtures that produce flowing concrete, the design technique should be based on high cohesion pump mix technology. Specialist advise from Fosroc is available on request.

Application instructions

Dosage: It is recommended that the optimum dosage is determined by site trials with the actual concrete mix. As a guide the rate of addition is generally in the range 0.5 to 1.5 litre/100 kg of cement. The higher dosage is used where "flowing concrete" is required and may be found necessary to modify concrete mix proportions. Fosroc can advise on mix design if required.

Over dosing

An over dose of double the recommended amount of Conplast SP430SRV(H1), will result in very high workability and some retardation of setting time will occur. However, the ultimate compressive strength will not be impaired.

Curing: Normal curing methods such as water spray, wet hessian or a Concure curing membrane should be used.

Cleaning: Spillages of Conplast SP430SRV(H1) can be removed with water.

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Estimating

Packaging

Conplast SP430SRV(H1) in 200 L and 250 kg. drum.

Storage

Shelf life

Conplast SP430SRV(H1) has a minimum shelf life of 12 months when stored in unopened containers below 35°C.

Precautions

Health & Safety

Conplast SP430SRV(H1) is non toxic. Any splashes should be washed off with water. If contact with eyes occurs, wash immediately with water and seek medical advice.

Fire

Conplast SP430SRV(H1) is non flammable.

Additional information

Technical data and guidance can be provided on wide range of admixtures and concreting aids, including plasticisers, superplasticisers, retarding admixture and accelerators, etc.

Separate datasheets are available on request.

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