

## Superplasticising slump retaining admixture

### Uses

Conplast SP430 SRV 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 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 SP430 SRV 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 SP430 SRV complies with the requirement of ASTM C 494-80 as a Type G Retarding, HighRange Water Reducing Admixture.

### Description

Conplast SP430 SRV is a dark brown liquid based on a blend of specially selected organic polymers. The plasticising action of Conplast SP430 SRV 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 : 1.260 - 1.260 at 27°C

Chloride content : Nil to IS:456

Setting Time : Conplast SP430SRV when used at the recommended dosage level may retard the setting of concrete.

Air entrainment : Less than 1.5%

Compatibility : Conplast SP430 SRV is generally compatible with other Fosroc Admixtures but it is recommended that all admixtures be added to concrete separately.

Compressive Strength: Conplast SP430 SRV is primarily a highly efficient superplasticiser giving large increase in workability without significant changes in compressive strength.

Conplast SP430 SRV may be used to produce 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 0.35 to 0.90 litres/100 kg cement for normal mixes & 0.5 to 1 litre/100 kg for high cement content mixes. 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.

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

**Cleaning:** Spillages of Conplast SP430 SRV can be removed with water.

**Over Dosing** : An over dose of double the recommended amount of Conplast SP430 SRV, will result in very high workability and some refardation of setting time will occur. However, the ultimate compressive strength will not be impaired.

# Conplast SP430 SRV

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## Estimating

### Packaging

Conplast SP430 SRV in 200 litres 250kg.

### Storage

### Shelf life

Conplast SP430 SRV has a minimum shelf life of 12 months when stored in unopened containers below 35C.

## Precautions

### Health & Safety

Conplast SP430 SRV 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 SP430 SRV 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.