



## General Purpose Concrete Retarder and Plasticizer, To Extend the Setting and Workability Time of Concrete

### General

**SS - SlowSet GC** is a specially formulated strongly retarding, plasticising additive. It is formulated to extend the setting time and / or workability time of concrete, without impacting the final strength or mechanical properties of the concrete. The material can be used with different types of concrete, whether site batched, made in a concrete plant [RMC Application] or in prestressed concrete, if so needed. **SS - SlowSet GC** is formulated chloride free and free of any corrosion promoting influences.

Typically retarders are used to extend the setting time and to prevent cold joints in mass concrete scenarios such as deep foundations, dam concretes, building rafts, road concretes. **SS - SlowSet GC** is also an admixture of choice for concreting during hot weather. The retardation process, ensures a slower set and lower heat of hydration. It also ensures there is a lower potential for thermal cracking in the concrete admixed with **SS - SlowSet GC**.

The concretes thus become more robust with regards to temperature changes. **SS - SlowSet GC** is also instrumental in preventing cold joints in large pours, helps make concrete more homogenous, improves the cohesion in concrete and improves overall workability and placing ability of the concrete.

### Product Features

- Retarding and Plasticizing Additive
- Compatible with admixtures from the SS - PlastiCon Super and SS - PlastiCon Hyper range
- Chloride free
- Free of corrosion promoting constituents
- Reduces Cracking Potential in large concrete pours
- Helps reduce cold joints in concrete pours
- Improves cohesion, workability and place-ability of concrete
- Extends setting time as well as workability and slump retention time of concrete
- Leads to lower heat of hydration



Concrete &  
Mortar Additives



### Areas of Application

- Mass Concrete
- Deep Foundations
- Dams
- Large Concrete Pours
- Prevention cold-joints in concrete
- Ready Mix Concrete
- Pumpable Concretes
- Suitable for all standard cements like OPC or Blended Cements or Mixes with high percentage of OPC replacement
- Congested/complex reinforced sections



### Areas of Application

<b>Specification Keywords</b>	Set Retarding and plasticising admixture, chloride free, reduced cold joints, slump retaining admixture, slows rate of heat of hydration evolution
<b>Delivered As</b>	Clear Liquid
<b>Storage Instructions</b>	Store in a cool and dry area away from sunlight, in original packaging
<b>Shelf Life</b>	12 Months
<b>Post Use</b>	Empty packaging completely. Dispose as per local regulations.
<b>Packing Size</b>	20 kg, 30 kg, 230 kg

**Assess Build Chem Private Limited**



## Hazards and Safety



## Technical Data

<b>Sp. Gravity</b>	1.1 +/- 0.05
<b>Dosage</b>	0.2 to 2.0% by weight of binder
<b>pH</b>	> 6
<b>Chloride Content</b>	< 0.1%
<b>Ash Content</b>	Negligible

## Instructions for Use

Add **SS - SlowSet GC** to the concrete during mixing, most preferably along with the additional water. Do not add **SS - SlowSet GC** to the dry aggregate/cement mix, as it reduces efficiency of the admixture. The admixture is most effective when dosed after about 70% of the mixing water has been added to concrete. The mixing time after addition of the admixture should be long enough to allow the admixture to plasticize the mix completely. The concrete to be produced can be mixed in a standard drum mixer or a modern batching plant / pan mixer setup.

In-case the admixture needs to be dosed on-site into transit mixers, please follow corresponding engineering and safety rules. Post addition, rotate the transit mixer drum at full speed for atleast 3-5 minutes, to allow the admixture to disperse homogenously. As with all chemical products, take care during use and storage to avoid contact with eyes, mouth, skin or food. In case of contact, rinse eyes and skin immediately with plenty of water. If ingested, seek immediate medical attention. Keep away from children and animals. Reseal containers after use. Do not reuse containers for storing water or other consumable foods. Use Complete Packs.

## Safety and Precautions

To determine individual technical suitability, test the admixture under application conditions. Please allow us to assist you for your concrete technology testing/needs. Follow relevant standards for production, placing and curing of concrete. As with any concrete, efficient curing is essential to develop final properties mechanical and durability properties.

Depending upon the concrete mix severe over dosage of the admixture may result in apparent incompatibility such as bleeding/segregation of concrete, quick loss of slump, excessive air entrainment, extended initial and final setting times etc. Slight overdosing would not severely affect the ultimate strength of concrete provided the concrete is properly mixed, handled and placed and adequately compacted and cured.