



Specially designed Multifunctional Air Entraining Admixture for Concrete using OPC, PPC, PSC or High GGBS Contents and Manufactured Sand

General

SS - AirVoid GC is a Specially designed Multifunctional Air Entraining Admixture for Concrete Mixes. The material is based on selected air entraining polymers and plasticisers and is free from chlorides. It aids concretes in attaining good plasticity, workability, cohesion and freeze-thaw resistance by entrapping minute well-distributed air bubbles into the mix.

The concretes with **SS - AirVoid GC** are homogenous, stable and free from bleeding and segregation. The formulation of **SS - AirVoid GC**, makes it suitable for use in concretes containing manufactured sand and a high percentage replacement of OPC by GGBFS or flyash.

SS - AirVoid GC is suitable for use in ready-mix concrete, site batching plants, precast industry, mass concrete, or mortars where freeze-thaw resistance and stability / cohesion is needed. Properly designed concrete produces a very homogenous concrete, which is easily workable without bleeding and segregation. Usage of **SS - AirVoid GC** reduces the chances of pump blocking and reduces the abrasion in the pipelines, thereby extending the life of concrete pumps. Please contact us for concrete technology support and design.

Product Features

- High Performance Multi-functional admixture to provide air entrainment, plasticity and cohesion
- Can be used with blended cements and mixes with high percentage of OPC replacement for high durability
- Robust Formulation, Suitable for most mixes
- Provides excellent freeze-thaw resistance to concrete
- Helps water retention and stability of mixes
- Chloride free
- Non-Toxic and Non inflammable
- Provides Improvement in dispersion of mixes having manufactured sand and helps rheological properties
- Lowers water content in the mix

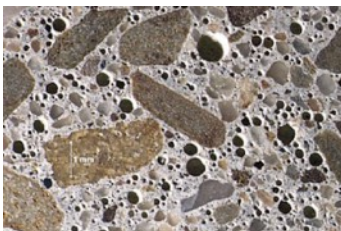


**Concrete &
Mortar Additives**



Areas of Application

- Cold Weather Concrete
- Prestressed concrete
- Extruded Concrete
- Pumpable Concretes
- Suitable for all standard cements like OPC or Blended Cements or Mixes with high percentage of OPC replacement
- Roller Compacted Concrete
- Mixes with high Fines Content
- Mortars and Plasters
- Lightweight Concrete



Areas of Application

Specification Keywords	Multifunctional Air Entraining Admixture, water reduction, improved cohesion, stability, freeze-thaw resistance, pumpability, chloride free, OPC, Blended Cements
Delivered As	Colourless Liquid
Storage Instructions	In Original Packing. In a cool dry place.
Shelf Life	12 Months from date of Manufacture.
Post Use	Use Complete Packs, Dispose packaging according to local regulations.
Packing Size	20 kg, 30kg, 200 kg

Assess Build Chem Private Limited



Hazards and Safety



Preliminary Trials Mandatory

Technical Data

Sp. Gravity	1.00 +/- 0.05
Dosage	0.2 to 1.0% by weight of binder
pH	> 6
Chloride Content	< 0.1%
Ash Content	Negligible

Instructions for Use

Add **SS - AirVoid GC** to the concrete during mixing, most preferably along with the additional water. Do not add **SS - AirVoid 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 function completely. The concrete to be produced can be mixed in a standard drum mixer or a modern batching plant / pan mixer setup. Measure the air contents of the mix as per requirements and codes.

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 homogeneously. 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. Air entrainment reduces the strength of the concrete and should be considered as part of the mix design process

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.