



Multifunctional Compaction Aid for Production of Machine Processed Concrete Products

General

SS - ConCast FL is a specially designed high-performance compaction aid for wet mixes mostly employed in cement product manufacturing. This is also suitable for employment in flow cast concrete. This increases density of mix and improves one day strength by hardening the mix. The increase of dispersion of cement paste results in lubrication between mix and moulds leading to lowering of efflorescence and bettering surface aesthetics. Use of **SS - ConCast FL** lowers internal friction in mix and increases bonding in mix leading to higher stability. This helps the mix not to stick to moulds and other machinery parts like injectors reducing wear and tear of machinery.

The success of flow cast mixes depends on its mix design as it contains less binders and more granular materials. The main problem to address is how to increase formation of slurry, which would also contribute to better surface properties with respect to both efflorescence as well as pigment dispersions. **SS - ConCast FL** addresses these problems, while maintaining stability of cast product as well imparting higher strength to the mix to maintain its dimensional stability immediately upon casting.

SS - ConCast FL helps provide improved material flow. Another version is available for semi dry mix concrete products viz **SS - ConCast EX**.

Product Features

- Compaction aid for wet mixes
- Enables immediate Demoulding
- Chloride free and Lowers Efflorescence
- Maintaining dimensional stability
- Increases initial strength by hardening
- Enhances surface finishes
- Lowers friction in mix
- Increases dispersion in mix
- Increases production
- Does not entrain air
- Increases density of mix
- Improves impermeability



**Concrete &
Mortar Additives**



Areas of Application

- Flow cast mix cement products
- Coloured mix cement products
- Building blocks
- Paver blocks and slabs
- Cement based landscaping products like edgings, kerbstones etc.
- Concrete pipes
- Roofing Tiles
- Manhole covers
- Pavement slabs
- Hollow core slabs



Areas of Application

Specification Keywords	Compaction Aid, Wet Mixes, water reduction, medium workability, OPC, Blended Cements, Cement Products, Hardener
Delivered As	Brownish 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	30 kg, 230 kg

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Hazards and Safety



Technical Data

Sp. Gravity	1.10 +/- 0.05
Dosage	0.50 to 1.00% by weight of binder
pH	> 4
Chloride Content	< 0.1%
Ash Content	Negligible

Instructions for Use

Add **SS - ConCast FL** to the mixes during mixing, along with the additional water. Do not add **SS - ConCast FL** 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 mix to be produced can be mixed in a standard mixers or a modern batching plant / pan mixer setup of processing machines.

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 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.