



STERLING ConFlow® RS 300
TECHNOTRADE PCE Based Retarding Superplasticiser for Ready-Mix Concrete
 The Specialist Construction Chemical Company

Description:

Sterling® ConFlow® RS300 is a retarding superplasticiser admixture of a new generation based on modified polycarboxylic ether. Sterling ConFlow® RS300 has been primarily developed for applications in high performance concrete where the highest durability and performance is required. It allows considerable reduction of mixing water while maintaining control on extend of set retardation. Sterling ConFlow® RS300 is free of chloride & low alkali and is compatible with all types of cements.

Usage:

- General ready mix concrete
- Pumped concrete
- Long-distance transporting
- High workability without segregation or bleeding
- High performance concrete for durability
- Congested/complex reinforced sections
- Mixes requiring >18% water reductions

Features & Benefits:

- High workability for longer periods
- Resistance to segregation even at high workability
- Extended setting with longer workability
- Reduced water content for a given workability
- Lower pumping pressure
- Higher ultimate strengths
- Increased ease in finishing concrete
- Good dispersion even in mixes with high fines

Workability:

Sterling ConFlow® RS300 ensures that rheoplastic concrete remains workable in excess of 2 hours at 25°C. Workability loss is dependent on temperature, and on the type of cement, the nature of aggregates, the method of transport and initial workability. It is strongly recommended that concrete should be properly cured particularly in hot, windy and dry climates.

Packaging:

Sterling ConFlow® RS300 is available in 225 Kg HDPE plastic container.

Storage & Shelf Life:

Sterling ConFlow® RS300 must be stored within moderate temperature, under cover, away from direct sunlight. The shelf life is 12 months from the date of production under suitable storage conditions.

Typical Properties At 25°C:

Appearance:	Light brown or Pale Yellow liquid
Specific Gravity IS 9103:2007	1.05 ± 0.02 at 25°C
Chloride Content:	< 0.2%
PH Value:	> 6 at 25°C
Standard:	Complies with IS 9103:1999, and ASTM C-494 Type G
Compatibility:	Can be used with all types of Portland and slag cements including sulphate resisting cement and Pozzolans, e.g., Micro silica, fly ash, GGBFS, etc.

* The uniformity parameters like specific gravity, pH, chloride content etc. will vary for specific site requirements and mix design. Please refer to our MTC issued for specific product configuration for measuring our product parameters that will be constantly and consistently administered.

Instructions & Usage:

Sterling ConFlow® RS300 is supplied ready for use liquid which is dispensed into the concrete together with the mixing water. The plasticising effect and water reduction are higher if the admixture is added to the damp concrete after 50 to 70% of the mixing water has been added. For maximum dispersion throughout the mix, measured quantity of Sterling ConFlow® RS300 should be added directly into the mixer at the same time as the mixing water. Sterling ConFlow® RS300 Admixture should not be added to the dry cement or mix. Thorough mixing is essential and a minimum mixing cycle, after the addition of the Sterling ConFlow® RS300, of 60 seconds for forced action mixers is recommended.

Dosage:

The optimum dosage of Sterling ConFlow® RS300 should be determined by site trial with the particular concrete mix. As a guide, a dosage range of 0.5% to 1.5% per 100kg of cementitious material is recommended. This dosage range applies for most concrete mixtures using typical concrete ingredients. However, variations in job conditions and concrete materials, such as silica fume, may require dosages outside of the recommended range.

Effects Of Overdosing:

Overdosing of SterlingConFlow® RS300 may result into segregation / bleeding of mix, delayed initial, final set, increased plastic shrinkage and air-entrainment, etc. Note: A slight overdosing may not adversely affect the ultimate strength of the concrete and can achieve higher strengths than normal concrete, provided it is properly compacted and cured. Due allowance should be made for the effect of fluid concrete pressure on form work, and stripping times should be monitored. In the event of over dosage, consult our representative immediately.

Health & Safety Instructions:

Sterling ConFlow® RS300 is formulated from chemicals which present no fire or health hazards. Does not fall into the hazard classifications of current regulations. However, it should not be swallowed or allowed to come into contact with skin and eyes. Suitable protective gloves and goggles should be worn. Store all materials and equipment safely and out of reach of children and animals. Observe container labels, SDS, applicable laws and regulations and all instructions before using the product and equipment. In case one of the components comes in contact with the skin, wash thoroughly with soap and water. Provide adequate ventilation in volume and pattern in working area.

***Further protection:** emergency showers and eyewash stations. Get immediate medical attention as needed.

Additional Information: Techno Builders Solutions® By Sterling Technotrade India Pvt.Ltd -The Specialist Construction Chemicals Company® range of associated products includes high performance concrete Admixtures, Adhesives, Protective Coatings, Concrete Repairs, Industrial Flooring, Grouts & Anchors, Joint Sealants, Surface Treatments, curing compounds, repair mortars, release agents, Grinding Aids & Waterproofing.

*Separate datasheet are available on these products.

Disclaimer: The product information & application details given by the company & its agents has been provided in good faith & meant to serve only as a general guideline during usage. Users are advised to carry out tests & take trials to ensure on the suitability of products meeting their requirement prior to full scale usage of our products. Since the correct identification of the problems, quality of other materials used and the on-site workmanship are factors beyond our control, there are no expressed or implied guarantee / warranty as to the results obtained. The company does not assume any liability or consequential damage for unsatisfactory results, arising from the use of our products.

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