



UGCT CONCAD HPC – 700

Specially designed Multifunctional Mid-Range PCE Admixture for Concrete Grades M40 & above using OPC, PPC, PSC or High GGBSF Contents & Manufactured Sand

Product Properties	Product Applications
<ul style="list-style-type: none"> § High Performance Multi-functional admixture to provide flow and workability retention § Specially formulated for blended cements and mixes with high percentage of OPC replacement by GGBFS, provides high durability § Robust Formulation, Suitable for most mixes § Enables excellent strengths in Concrete § Retarding Superplasticizer § Chloride free § Non-Toxic and Non inflammable § Provides Improvement in dispersion of mixes having manufactured sand and helps rheological properties § Ideal for Concretes over 40 MPa in strength § Reduced thermal peaks § Low Stickiness 	<ul style="list-style-type: none"> § As a retarding superplasticizer for ready-mix concrete § For prestressed or precast concrete § For marine and massive structures requiring long workability retention period § Pumpable Concretes § Can be used with all standard cements § Can be used with mixes containing OPC or Blended Cements or Mixes with high percentage of OPC replacement § Congested/complex reinforced sections § Mixes with high Fines Content § Mass Concrete § Mixes requiring high water reduction and reduces stickiness

Instructions for Use

UGCT Concad HPC – 700 is a Specially designed Multifunctional Mid-Range PCE based Admixture for Concrete Mixes over 40 MPa in Strength. The material is based on selected PCE polymers and is free from chlorides. It aids concretes in attaining good mechanical properties and durability. The concretes with **UGCT Concad HPC – 700** are homogenous and free from segregation. The formulation of **UGCT Concad HPC – 700**, makes it suitable for use in concretes containing manufactured sand and a high percentage replacement of OPC by GGBFS or flyash.

UGCT Concad HPC - 700 is fast mixing and can be used with low w/c ratios making it suitable for use in ready-mix concrete or site batching plants, precast industry, mass concrete, marine or massive structures where the workability retention for a longer period is required. Properly designed concrete produces a very homogenous concrete, which is easily workable without bleeding and segregation. Usage of **UGCT Concad HPC - 700** reduces stickiness and therefore the chances of pump blocking and reduces the abrasion in the pipelines, thereby extending the life of concrete pumps and it enhances workability in hot weather & reduces chances of cold joint formation. Please contact us for concrete technology support and design.

UGCT Concad HPC - 700 is to be added to the concrete during mixing & should preferably be dosed along with the additional water. Do not add **UGCT Concad HPC - 700** to the dry aggregate/cement mix. It 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

If dosage on the job-site into transit mixers is necessary, please follow corresponding engineering and safety rules. 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. Empty packages completely and dispose off carefully to protect the environment.



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Dosage

UGCT Concad HPC - 700 is generally added between 0.2 to 2.0% by weight of cement for flow concrete depending on the workability and retardation requirement for individual job site. However it is recommended that site trials be taken to determine optimum dosage. In certain cases due to variations of cement, sand aggregates, weather or site conditions dosages may vary from recommendations.

Compatibility

Pozzolans apart, UGCT Concad HPC – 700 is compatible with most admixtures used in the production of quality concrete including normal air entrainers, accelerators, retarders, corrosion inhibitors, and shrinkage reducers or integral waterproofing additives.

Precautions

To determine individual technical suitability, preliminary tests should be carried out under application conditions. We shall be glad to assist you for your concrete technology testing/needs. Relevant standards for production, placing and curing of concrete should be followed. Efficient curing is essential for any concrete and is best-achieved using curing compounds. This will avoid negative effects of quick water loss from the concrete. Depending upon the concrete mix severe over dosage of the admixture may result in bleeding/segregation of concrete quick loss of workability, air entrainment, extended initial and final setting times etc. Slight overdosing may not severely affect the ultimate strength of concrete provided the concrete is properly mixed, handled and placed and adequately compacted and cured.

Product Data

Form and Colour: Yellowish Brown Liquid
Sp. Gravity: Approx. 1.05 ± 0.05
pH: ≥ 6.0
Dosage: 0.2 to 2.0% by weight of cementitious
Chloride Content: $< 0.1 \%$

Shelf Life: 12 Months from Date of Manufacture
Storage: In closed Packaging. Protect from Rain, Direct Sunlight, Heat and Frost
Delivery Packaging: 30 kg, 100 kg

Disclaimer

The information in this data sheet is furnished in good faith and based on information that we believe to be accurate. Since Individual facts and circumstances may differ and conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer's tests to ensure that our products are safe, effective, and completely satisfactory for the intended end use. Preliminary trials are mandatory. We make no warranties, express or implied, and assume no liability in connection with any use of this information. This provided we are liable for the correctness of this data within the scope of our terms and conditions of sale, delivery and service. If a technically revised new edition of this data sheet is issued, this edition becomes invalid. E. O.E.

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