

Organized by



Indian Concrete Institute
Bangalore Centre

7th
EDITION



Two Day National Seminar Cum Deminar,
Live Product Demonstration and Exhibition on

CONCRETE ADMIXTURES & WATERPROOFING SYSTEMS

– Best practices for durable structures.

Date : 25th & 26th of February 2016

Venue : Nimhans Convention Centre, Bangalore



Address for correspondence :



Indian Concrete Institute -
Karnataka Bangalore Centre

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CONCRETE ADMIXTURES.....



Concrete admixtures : Modern day concrete cannot be thought of without concrete admixtures. As per one of the surveys in civil engineering, the maximum number of research projects are in the area of concrete technology worldwide. The challenging demands of modern day designs; be it architectural, structural or construction can be met with the wonder material called concrete. This is the reason the *percapita* consumption of concrete is only next to that of drinking water and so the usage of admixtures has enormously increased in the recent past.

The developments of High Strength Concrete, High Performance Concrete, Self-Compacting concrete, Ultra High Performance Concrete, Geo-polymer Concrete etc., have necessitated developments of both Chemical and mineral concrete admixtures employing new technology platforms. Earlier plasticizers were replaced by superplasticizers and now by Hyper Plasticizers. This has paved the way for concrete technologists to think in terms of cement replacements such as fly ash, GGBFS and other Pozzolanic material upto proportions exceeding 70%.

Chemical Admixtures are classified according to their function. The primary types of chemical admixtures fall in the categories of water-reducing, retarding, accelerating and plasticizing functions of concrete. All other varieties of admixtures fall into the specialty category whose functions include corrosion inhibition, shrinkage reduction, alkali-silica reactivity reduction, workability enhancement, bonding, damp proofing and coloring. Air-entraining admixtures are used to purposely place microscopic air bubbles into the concrete to enhance durability of structures.

Mineral Admixtures are also called 'Supplementary Cementing Materials' used when special performance such as increase in strength, reduction in water demand, impermeability, low heat of hydration, improved durability, correcting deficiencies in aggregate gradation (as fillers), etc., are needed. The usage of mineral admixtures also results in cost and energy savings by way of replacement of cement as the energy required to process these materials is also much lower than cement. Environmental damage and pollution is minimized by the use of these by-products. When used as cement replacement materials, about 6-7% of total CO₂ emission in the atmosphere is reduced which is estimated to be the contribution from the production of Portland cement.

WATERPROOFING SYSTEMS.....



Waterproofing : Water leakage is a universal problem. In spite of a number of advances in construction technology and waterproofing systems, waterproofing has remained as a serious challenge to our living shelters. The increasing complexity of construction today demands better design and execution methodologies of waterproofing. Of late, in the race to build fast, due attention is not paid to basic waterproofing principles. Compromising on design, detailing and execution has become very common. In today's construction where there is a complex interfacing of different streams of engineering (MEP, HVAC, etc.), failure in waterproofing can lead to technical and contractual disputes such as disruption to business, lack of access to leaking areas, endangerment to electrical installations, reduction of the structural integrity of the building and surrounding structures in extreme cases.

Repair costs can be equivalent to replacement costs in extreme cases. A clear understanding of waterproofing from a holistic perspective will eliminate or can limit direct and consequential damages. It is well known today that 99 percent of leak occurs through 1 percent of the building envelope. To prevent this leakage, we have to pay 100 percent attention to detailed engineering, waterproofing product quality and professional installation by the qualified and experienced personnel.

This Deminar will address critical issues related to concrete admixtures. There will be focused deliberations on water leakages and will throw more light on the material science, methodologies and techniques of design and execution of waterproofing.

THE DEMINAR is a unique feature of "Concrete Panorama" wherein live demonstration of usage and applications of **Concrete Admixtures & Waterproofing Systems** is carried out simulating field conditions. This will be beamed live to the audience in the seminar hall. In addition, an exhibition facility will also be provided to showcase the products and systems on Concrete Admixtures & Waterproofing.

WHO CAN PARTICIPATE: Companies and their subsidiary service providers make use of this opportunity to show case their products. This kind of Deminar is the only one in India which is very popular among engineers and practitioners to learn through practical demonstration, exhibitions and seminar about new products and technologies.

Eminent personalities in the field of **Concrete Admixtures & Waterproofing Systems** will also be invited to deliver lectures during the seminar. This 2-days event will witness extensive participation from construction companies, structural consultants, decision makers from Government and Private Sectors such as Bangalore Mahanagara Palike, Bangalore Metro Rail Corporation Ltd., Bangalore Development Authority, CPWD, PWD, BWSSB, KUIDFC, academic and research experts across India and abroad.

During "CONCRETE PANORAMA", following activities are planned:

- Presentations from eminent personalities related to Concrete admixtures & Waterproofing Systems.
- Demonstration of state of the art Technologies & Waterproofing Systems.
- Demonstration of new generation superplasticizers for achieving desired properties of concrete in fresh and hardened state.
- Demonstration of innovative quality control devices.
- Demonstration of performance enhancing mineral admixtures in concrete.
- Demonstration of use of alternative materials.
- Exhibition of products, materials, systems, equipment related to Concrete admixtures & Waterproofing Systems.

SUB THEMES

- Sealants, Grouts and expansion joint treatments.
- Bacterial concrete.
- Plasticizers, Super and Hyper Plasticisers and all other types of concrete admixtures.
- Curing compounds, membranes / systems
- Leak detection.
- Infrared thermography / Imaging.
- Poly Urea Coatings.
- Brush applications.
- Concrete cloth.
- Industrial Floorings.
- Nano technologies in water proofing and concrete systems.
- Fibres in waterproofing.

ICI Student chapter activities :

- Poster presentations
 - Movie making
 - Model display
 - Any demonstration
- Certificates and attractive prizes.*

Advertisements : Will be included in the Proceedings and CD, which also include all presentations and demonstrations.

- Backside of the souvenir : **Rs. 30,000/-**
- Front inside or Back inside : **Rs.20,000/-**
- Full page : **Rs. 15,000/-** (Inclusive of Ser. Tax 14.5%)
- Half page : **Rs. 8,000/-**

Delegate Registration fee

(Inclusive of Ser. Tax 14.5%)

ICI members	2,000/-
Non members	2,500/-
ICI Student members	750/-
Student Non members	1,000/-

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Particular	Amount	Delegates	Stage Backdrop Display	Company Name Display	Presentation	Stalls	Product Demo
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Sponsors	1,00000	2	YES	YES	YES	1	NO
Demonstrators	75,000	2	NO	YES	NO	0	YES
Exhibitors	40,000	2	NO	YES	NO	1	NO
Supporting Organisation	30,000	2	YES	YES	NO	0	NO
Dinner Host*	3,00000	6	NO	YES	YES	0	NO
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* Dinner hosting company will be allowed to invite 50 numbers of its business associates to the dinner

Please draw cheque / DD in favour of **"Indian Concrete Institute - Karnataka Bangalore Centre"** (All payments are Inclusive of Ser. Tax 14.5%)

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– *Best practices for durable structures.*

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