

Customised Concrete: Admixtures make it easy

CONMIX manufactures an impressive range of construction chemicals that comply with international standards.

Concrete is the core component of every structure. Concrete has evolved over a period of time not only in its constituent nature but also its utility. Modern day concrete has to comply with many stringent parameters set by structural designers and architects. Concept of commercial ready mix business has raised the expectations of concrete performance in terms of longer duration of slump retention and easy pumpability without segregation and bleeding for tall structures.

Concrete had to satisfy only the compressive strength as a main parameter in the past. But today, concrete has to also meet other durability parameters like least levels of water penetration, rapid chloride permeability, water absorption, etc. Consultants and designers employ various international standards like BS EN 12390-8, BS 1881-208, ASTM C1202, ASTM C109, BS 6319-3, etc. to govern the performance of fresh and hardened concrete.

Technological advancement

Above scenario has compelled concrete producers to design the concrete using latest technology with utmost care. Concrete mainly constitutes fine aggregates, coarse aggregates, water and

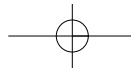
cement as a binder which have to be combined in optimal proportions to obtain best performance. Many a time, quality of locally available materials puts limits on the concrete technologist to have best quality concrete or to meet increased stringent performance levels.

Construction chemicals are being extensively used to enhance the quality of concrete to fulfil the pre set performance target which is difficult to attain otherwise. **MegaFlow SP1** range of concrete admixtures help in achieving high slump of 160mm with water reduction of 30%. These admixtures are a boon to precast industry where early strength at 12 to 14 hours is a governing factor for fast rotation of the moulds thereby increasing the productivity. **MegaFlow SP4** range of concrete admixtures help in maintaining the pumpability of concrete with more than 120mm slump and for extended travel time up to two hours without setting of the concrete. Modern day concrete which contains combination of cement, micro silica, fly ash or GGBS, etc. calls for specially designed admixtures like **MegaFlow SP402**.

Recent trends of structures like tall sky scrapers, architectural designs and shapes, beamless slabs, slender columns,

Mass Concrete Pour






congested steel reinforcements and reduced noise and energy level requirements at sites have called for self compacting concrete. **MegaFlow 2000** range of poly carboxylic based hyper plasticisers helps concrete technologists to design and execute self compacting concrete with ease. These admixtures help in designing concrete with high strength of 80 MPa and also completely avoid noisy mechanical compaction.

Water holding structures like water tanks, swimming pools, dams, canals, deep pile foundations etc. require water tight concrete. **MegaAdd WL** range of additives helps in designing concrete with least water penetration at high pressures.

CONMIX Construction Chemicals division manufactures a comprehensive

range of repair products, floorings, non-shrink grouts, waterproofing, sealants, curing compounds, admixtures, mould release agents, bonding agents, tile adhesives and tile grouts. The company follows a quality management system certified to **ISO 9001**, maintaining quality assurance in design, development, production, installation and service. Conmix products comply with all international standards and are used in more than 32 countries. Supported by modern and substantial manufacturing units, well equipped R&D facility, state of art laboratories, experienced qualified engineers, competent technical support department and proactive sales team, CONMIX is an ideal partner for all construction needs. 

Flow test for self compacting concrete

