

Enhancing Concrete Life-span

Water tightness: A key parameter in extending durability of concrete structures.

Concrete structures need to resist many adverse effects externally as well as internally. Though water is very essential and effective for curing of concrete, it becomes a hazard for hardened reinforced concrete. Water can penetrate inside the concrete through the minutest of cracks. Porous nature of concrete facilitates moisture and water to penetrate in through osmotic action. Once water reaches the steel reinforcement in concrete, the process of corrosion begins. This leads to deterioration and reduction in life of structures. Substantial amount of money is being invested in order to protect the concrete structures against the ingress of water.

As an effective preventive measure to protect structures, they can be made watertight while being constructed. Conmix has a range of concrete additives which improve the impermeability of concrete by more than 90%. The advanced technology product like MegaAdd WL3 not only improves the water tightness of the concrete, but also improves the durability parameters listed under BS EN 12390 and BS EN 480. This in turn assists in extending the life of the structure. It improves impermeability of concrete using unique nano technology to modify the cement matrix by reacting with the cement hydrate to reduce pore and capillary size. Another product, MegaAdd WL2 is extremely effective in making concrete hydrophobic. It is an integral water repellent admixture based on a blend of long chain selected organic derivatives.

Conmix has launched a wide range of liquid applied membranes with crack bridging ability. MoyaProof HF and MoyaProof WS2 are the kind of cementitious products that are extremely flexible and easy to apply. These help in achieving joint-less membranes to cover the intricate shapes and sizes of the substrate. These can resist 5 to 7 bar hydrostatic pressure.

MoyaShield Uflex is another extremely versatile product offered by Conmix. It can be applied on concrete, wood and metal roofs. This light reflective coating helps in reducing the inside temperatures. It is solvent free, LEED compliant and environment friendly. It is a UV resistant protective membrane with elongation of more than 400%. It helps in accommodating structural movements and bridging the cracks. It is an excellent anti carbonation coating to protect the concrete structures in the vicinity of aggressive



environment. Another single component, flexible, cold applied liquid water proofing membrane is MoyaShield PU. It is an extremely flexible membrane with elongation exceeding 500%.

Conmix has a range of penetrating, surface applied products to improve the water tightness of concrete structures. MoyaProof CWL and CWP are based on latest technology of waterproofing by crystallisation. These crystals penetrate inside the concrete and seal the pores and capillaries. In a way, it is a "sub surface membrane" which remains active throughout the life of the structure. MoyaShield SR and MoyaShield WR are surface applied, deep penetrating water repellents. They form the first line of defence against water ingress.

To stop the water from running leakages, Conmix has a range of injection products based on Poly Urethanes, Epoxy and Cement. This exhaustive, wide range of liquid applied waterproofing products provide complete building envelope for protection.

CONMIX 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.

(Communication by the management of the company)

