



AEROTM
CONCHEM LLP

AN ISO 9001 : 2008 CERTIFIED COMPANY

AEROPLAST IWL

Integral Waterproofing Liquid Admixture For Concrete And Mortar

Description

AEROPLAST IWL is a dark brown liquid based on lignosulphonates which mixes readily with water and therefore disperses evenly. AEROPLAST IWL waterproofs by improving the quality of the concrete or mortar. It reduces the water demand for required workability and minimises segregation and bleeding.

The surfactants in **AEROPLAST IWL** react in the cement, sand mixture to produce insoluble hydrophobic precipitates. These have a two-fold effect in reducing the permeability of the mix as they both repel moisture, due to their hydrophobic nature, and act as pore blocking agents to reduce the inter-connectivity of porosity in the mix.

Uses

To produce waterproof sand cement mortars, screeds, concrete and renders or to improve application of mortars by making them more cohesive and workable. To minimize permeability and increase the waterproofing properties of concrete and cement sand mortars for critical applications like roof slabs and screeds, basements, internal and external plastering, bathroom floors, water tanks, sumps, drains etc.

Advantages

- Provides integral protection to the mortar, render or screed, ensuring reduced permeability all through the applied material and not only on the surface.
- Reduced water permeability minimizes efflorescence caused by transport of dissolved salts through the mix.
- Entrained air bubbles assist in the formation of a stable cohesive mix, reducing segregation and bleeding and improving spreading and placing.
- Air entrainment improves mortar workability, allowing lower water contents to be used.
- **Liquid admixture:** Instant and complete dispersion throughout the mix. Uniform waterproofing throughout concrete matrix.
- **High efficiency:** Dramatic reduction in permeability of concrete/ mortar

Standards Compliance

AEROPLAST IWL conforms to IS : 2645 - 2003

Typical Properties & Specifications:

Sr.No	Properties	Specification
1	Physical Appearance	Dark Brown liquid
2	Chloride content	< 0.2 % As per IS:2645-2003
3	Compatibility	Can be used with all types of cements, including pozzolanic but not High Alumina Cement.
4	Permeability to water	Less than 15% as compared to 50% max. allowable under IS:2645 – 2003 compared to control sample.
5	Setting Time	No significant effect on setting time of concrete or mortar.
6	Compressive Strength	Maintains compressive strength equal to control concrete or mortar and can even improve on strength property if full advantage of water reduction potential is utilised.
7	Workability	Improves workability at reduced water cement ratio.

Instruction for use

Mortar: Conplast WL is ideal for use with all sand/cement mortars where it is required to reduce permeability to a minimum.

Plaster : **AEROPLAST IWL** is ideal for use with all sand and cement mortars where it is required to reduce permeability to a minimum.

Concrete : **AEROPLAST IWL** is recommended for all general concrete work where the risk of porosity and permeability must be minimised. Eg. Basements, tanks, balcony, floor and roof slabs.

The required quantity of **AEROPLAST IWL** is measured and poured with the regular pouring of water in case of conventional concreting. Separate dispensing system is required for RMC plants.

AEROPLAST IWL water mixture shall be added to the concrete or mortar and mixed thoroughly. Mixing shall be continued and further water shall be added until the required workability is obtained. The total amount of water added per mix in the initial batches shall be maintained for the remaining batches.



CONCRETE ADMIXTURES



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Note : Mixes using **AEROPLAST IWL** will require much less water than normal mixes for the same workability. Water reduction may be as much as 15% or more. If the moisture content of the sand or aggregate changes i.e., it becomes wetter or dryer, then the amount of water used must be reduced or increased to give the original workability.

Consumption

The minimum dosage is 125ml and the maximum is 200ml per 50kgs of cement. Site trials shall be carried out to arrive at the optimum dosage.

Packing

AEROPLAST IWL is supplied in 125ml, 1, 5, 20 and 200 litre containers.

Shelf Life & Storage

AEROPLAST IWL has a shelf life of 12 months from date of manufacture when kept at a temperature between 5 °C to 45 °C and store in the original, unopened bags. All material shall be stored under cover in a manner that will prevent damage preferable on pallets and protected from excessive heat and moisture. Do not freeze.

Quality Assurance

AERO CONCHEM LLP is a firm of Assessed Capability. The company's quality system conforms to ISO 9001:2008.

Health & Safety

AEROPLAST IWL is no-toxic and non-flammable. Avoid inhalation of dust during mixing and wear safety glasses, dust mask and gloves. If skin contact occurs wash thoroughly with clean water. Should eye contact occur rinse immediately with plenty of clean water and seek medical advice. Full health and safety data are given in Product Safety Data Sheet.

OUR RANGE OF PRODUCTS



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JAN/2017/01