



An ISO 9001: 2008 Certified Company.



Duraproof - IWL

Integral waterproofing liquid Cum Plasticiser for concrete and mortar

Technical Data Sheet

Uses

To minimise permeability and increase the waterproofing properties of concrete and cement sand mortars for critical applications like roof slabs and screeds, basements, external plastering, bathroom floors, water tanks, sumps, drains etc.

Advantages

- ❖ **Liquid admixture:** Instant and complete dispersion throughout the mix. Uniform waterproofing throughout concrete matrix.
- ❖ **High efficiency:** Dramatic reduction in permeability of concrete/ mortar
- ❖ **Improved workability:** Improves compaction of concrete and mortar, even where harsh sands or aggregates are used.
- ❖ **Improved concrete quality :** Minimises porosity and honey combing. Produces dense homogenous concrete.

Description

Duraplast IWL is a dark brown liquid based on lignosulphonates which mixes readily with water and therefore disperses evenly. Duraplast IWL waterproofs by improving the quality of the concrete or mortar. It reduces the water demand for required workability and minimises segregation and bleeding. Thus it is more efficient compared to traditional powder waterproofers as its use results in two fold improvement of concrete or mortar.

Properties

Chloride content : Nil

Compatibility : Can be used with all types of cements, including pozzolanic but not High Alumina Cement.

Permeability to water : Less than 15% as compared to 50% max. allowable under IS:2645 compared to control sample.

Setting Time: No significant effect on setting time of concrete or mortar.

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.

Workability: Improves workability at reduced water cement ratio

Application instructions

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

Concrete: Duraplast IWL is recommended for all general mass concrete work where, due to harsh aggregates, difficulty of compaction or mix control, the risk of porosity and permeability must be minimised. Eg. Basements, bund walls, tanks, balcony, floor and roof slabs.

N.B.: The minimum dosage is 125ml and the maximum is 200ml per 50kgs of cement. If maximum dosage is used a minimum of 15% water should be reduced to ensure no loss in strength. Site trials shall be carried out to arrive at the optimum dosage. The required quantity of Duraplast IWL is measured and stir into the first or second bucket of water. Duraplast 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.

Estimating Packaging

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

Storage

Duraplast IWL has a minimum shelf life of 12 months, if kept in a dry store in unopened containers.

PRECAUTIONS

Health and safety

Cementitious mortars modified with **Duraproof - IWL** contain cement powders which, when mixed or become damp release alkalis which can be harmful to skin. During use avoid inhalation of dust and contact with skin and eyes. Wear suitable protective clothing, gloves and eye/face protection. The use of barrier creams provide additional skin protection. Should accidental skin contact occur, remove immediately with a resin removing cream followed by soap and water. Do not use solvent. In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice. If swallowed seek medical attention immediately - do not induce vomiting.

DISCLAIMER The product information & application details given by the company & its agents has been provided in good faith & meant to serve only as a general guideline during usage. Users are advised to carry out tests & take trials to ensure on the suitability of products meeting their requirement prior to full scale usage of our products. Since the correct identification of the problems, quality of other materials used and the on-site workmanship are factors beyond our control, there are no expressed or implied guarantee / warranty as to the results obtained. The company does not assume any liability or consequential damage for unsatisfactory results, arising from the use of our products.

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