

WAREP 1000/L

Integral Waterproofing Liquid Admixture for Concrete and Mortar



WAREP 1000/L is a dark brown liquid based on lingo sulphonates which mixes readily with water and therefore disperses evenly.

WAREP 1000/L 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.

Uses

To minimize 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.

Benefits

- **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.

Technical Support

Thermax provides a technical advisory service for onsite assistance and advice on admixture selection, evaluation trials and dispensing equipment. Technical data and guidance can be provided for admixtures and other products for use with fresh and hardened concrete.

Standards Compliance

WAREP 1000/L conforms to IS:2645-2003.

Properties

Specific Gravity	1.13-1.18
Chloride Content	Nil as per IS:2645-2003
Setting Time	No significant effect on setting time of concrete or mortar

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
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 utilized.
Workability	Improves workability at reduced water cement ratio

Instructions for Use

Mortar

Warep 1000/L is ideal for use with all sand/cement mortars where it is required to reduce permeability to a minimum.

Concrete

Warep 1000/L 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 minimized. Example- Basements, bund walls, tanks, balcony, floor and roof slabs.

Dosage

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.

Mixing

The required quantity of Warep 1000/L is measured and poured into the bucket of mixing water and stirred.

WAREP 1000/L

Warep 1000/L 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.

Note: Mixes using Warep 1000/L 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.

Health and Safety Instructions

WAREP 1000/L is non-toxic. Any splashes on skin should be washed well with water. If contact with eyes occurs, it shall be washed well with water and medical advice sought immediately.

Fire

WAREP 1000/L is non-flammable.

Storage

WAREP 1000/L has a minimum shelf life of 12 months, if kept in a dry store in unopened containers.

Packing

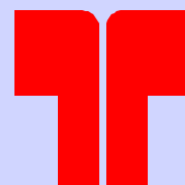
WAREP 1000/L is supplied in 5,20ltr and 250kg barrel.

Other Segments:

- Concrete Admixtures • Surface Treatments • Grouts & Anchors • Repair & Rehabilitation
- Protective Coatings • Industrial Flooring • Waterproofing • Sealants • Adhesives

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