

Mahaproof IWL Plus

Liquid Integral Waterproofing Compound Based on PCE

Description

Mahaproof IWL Plus is a liquid integral waterproofing additive for cement concrete, plaster and mortar. It is specially formulated additive composed of cement compatible, surface active components polymers and additives. It's used as an additive for cement concrete/mortar/plaster & it makes concrete cohesive and prevents segregation.

Features / Advantages

- Increases work-ability of the concrete mix
- It is based on Poly Carboxyl Ether base
- Makes concrete more cohesive, hence protects steel better against corrosion
- Reduces capillary action,
- Reduces shrinkage crack development in plaster & concrete
- Reduces vapour transmission through concrete
- Non-toxic
- Improves workability of freshly mixed cement concrete.
- Makes concrete water-tight
- Reduces the permeability of mortar as well as concrete
- Reduces the rebound loss
- Requires very small dosages hence economical

Typical application

- **Used in crush sand (M sand) application**
- Used in mass concrete
- Water tanks & water retaining structures
- Roof slabs and screeds.
- Foundation walls
- Floors, external plastering
- Bathrooms and balconies
- Masonry mortars

Technical Information

Sr.No.	Properties	Results
1	Nature	Single component, Liquid
2	Engineering Data	Complies to IS 2645-2003 & IS 9103-1999
3	Color	Clear to Pale yellow
4	Specific Gravity at 30°C	1.020 ±0.020 g/cc
5	Consistency	Low Viscous Liquid
6	Compatibility	Compatible with all types of admixtures & can be used with all Portland cement grades.
7	Recommended Dosage	100-150 ml per 50 kg cement bag
8	Air entrainment	Approx. 2.5% -5% additional air over control concrete
9	Chloride content	0.4 % Max, according to IS 6925

Methods of Application

Charge cement & aggregates to concrete mixer as per the mix design, mix in dry state for 1–2 minutes

Start addition of 75–80% mixing water & mix for 2-3 minutes.

Mahaproof IWL Plus is added as per the recommended dosage into the remaining mixing / gauging water, then add to concrete mixer & mix for another 2 minutes.

Place the concrete or apply plaster, as needed.

Cure the applied mortar or concrete as per good construction practices.

Precautions & Limitations

- Do not add Mahaproof IWL Plus directly to dry cement & aggregate mix.
- Maintain water-cement ratio as low as possible.
- Do not increase the dosage of Mahaproof IWL Plus than the recommendation.

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Packing

1L, 5L, 20L, 50L
& 200L



Storage and Shelf life

Storage:

Store in a cool dry place under shed away from heat. Shelf life is Two year in original unopened conditions.



Dosage

100ml to 150ml of Mahaproof IWL Plus per 50kg bag of cement.



Cleaning of Tools & Equipments

Tools and Equipment's can be cleaned with water.

Ecology, Health and Safety

Health & Safety instructions, all chemicals should not come in contact with skin and eyes or be swallowed. Protective gloves and goggles should be worn. If contact with skin occurs, wash well with soap and water.

Eye contamination should be washed thoroughly with clean water and medical advice sought.

If swallowed seek medical attention immediately. Do not induce vomiting.

Disclaimer

The technical data contained herein is based on our present knowledge and experience and we cannot be held liable for any errors, inaccuracies, omissions or editorial failings that result from technological changes or research between the date of issue of this document and the date the product is acquired. Before using the product, the user should carry out any necessary tests in order to ensure that the product is suitable for the intended application. Moreover, all users should contact the seller or the manufacturer of the product for additional technical information concerning its use if they think that the information in their possession needs to be clarified in any way, whether for normal use or a specific application of our product.

Our guarantee applies within the context of the statutory regulations and provisions in force, current professional standards and in accordance with the stipulations set out in our general sales conditions.

The information detailed in the present technical data sheet is given by way of indication and is not exhaustive. The same applies to any information provided verbally by telephone to any prospective or existing customer.



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