

Kesari Integral Waterproofing Compound

High-performance liquid integral waterproofing compound engineered for use in cement concrete, mortars, and plasters. It actively disrupts the capillary structures formed during the cement hydration process, significantly reducing permeability while improving workability and cohesiveness.

1. Technical Specifications & Compliance

Property	Specification / Value
Appearance	Light yellow liquid
pH Value	8 ± 1
Chloride Content	NIL (in accordance with IS 456)
Air Entrainment	Less than 2% over control mixes
Standard Compliance	Conforms to IS 2645

Shelf Life 12 months from manufacture in original unopened packaging (dry & shaded storage)

2. Key Advantages & Features

- Capillary Blocking:** Effectively blocks microscopic pores and capillary tracts inside concrete and plaster matrices to stop active water seepage.
- Enhanced Workability:** Acts as an efficient plasticizer, producing a cohesive and homogeneous mix that prevents segregation and simplifies placement.
- Shrinkage Reduction:** Minimizes drying shrinkage cracks in mortar and plaster layers.
- Corrosion Safe:** Completely chloride-free formulation ensures zero risk of rust or corrosion to embedded steel reinforcement.
- Setting Time Neutral:** Does not alter the normal initial and final setting times of standard commercial cements.

3. Recommended Areas of Application

- Water Retaining Structures:** Water tanks, swimming pools, and underground reservoirs.
- Slabs & Roofs:** Basement concrete, sunken slabs, roof screeds, and brickbat coba waterproofing systems.
- Plastering:** External and internal plaster walls prone to heavy weathering and dampness.

- **General Masonry:** Structural mass concrete and mortar beds requiring low water permeability.

4. Dosage & Mixing Instructions

Recommended Dosage Rate: 100 ext{ ml to }125 ext{ ml} per 50 kg bag of cement.

Mixing Procedure

1. **Never** add Kesari Integral Waterproofing Compound dry directly into raw cement.
2. Measure the required quantity of Integral Waterproofing Compound and mix it thoroughly into the clean gauging water.
3. Add the blended water-admixture solution gradually into the dry mix of cement, sand, and aggregates using a mechanical mixer or a clean mixing tray.
4. Adjust the total added water downward to account for the plasticizing efficiency of Integral Waterproofing Compound, keeping the water-cement ratio as low as possible for maximum compressive strength.

5. Typical Application System Layout

When used as part of a complete waterproofing assembly (such as bathroom sunken slabs or protective roof screed overlays):

1. **Surface Preparation:** Clean the structural sub-base thoroughly to remove dust, loose particles, oil, and grease. Bring the substrate to a saturated surface-dry (SSD) state.
2. **Primary Waterproofing Layer:** Pair with an elastomeric liquid coating (e.g., *Kesari Flexi Lock*) applied over the prepared concrete base.
3. **Protective Screed Layer:** Lay a protective cement-sand mortar screed (typically mixed in a **1:3** ratio dosed with **Kesari Integral Waterproofing Compound**) over the treated surface within 48 to 72 hours to protect the underlying system and establish correct drainage slopes.

