

Kesari Black Armor PU

Kesari Black Armor PU is a heavy-duty, bitumen-based resilient waterproof and protective liquid coating designed to form a tough, seamless, and impermeable membrane. Engineered for superior moisture and vapor barrier performance, it provides exceptional protection against groundwater seepage, soil chemicals, and dampness on concrete and masonry structures.

1. Product Technical Overview

Technical Parameter	Description / Specification
Product Name	Kesari Black Armor PU
Nature / Form	Single-component, cold-applied bituminous emulsion liquid coating
Color	Black
Packaging Sizes	Available in 1 L, 5 L, 10 L, 20 L, and 30 kg containers
Shelf Life	6 months in original, unopened containers in cool, dry conditions
Core Functions	Damp-proofing, below-grade waterproofing, retaining wall protection, foundation coating, and subsurface masonry waterproofing.
Key Advantages	Cold applied, seamless/joint-free barrier, chemical resistance against ground salts/chlorides, and water-based emulsion suitable for SSD surfaces.

2. Core Application Systems & Execution Protocol

STEP 1: Surface Preparation

- Ensure all target concrete or masonry surfaces are structurally sound, clean, and free from dust, oil, grease, laitance, oil-based formwork release agents, and loose particles.
- Remove protruding sharp projections, tie-rod ends, or honeycombs. Repair structural defects, cracks, and surface cavities using compatible polymer-modified repair mortar.
- The substrate may be in a **Saturated Surface Dry (SSD)** condition, but free-standing water must be completely removed.

STEP 2: Priming Coat

- Stir the Kesari Black Armor PU thoroughly before application.
- Prepare the priming coat by diluting the material with clean water (typically following a 1:1 or 1:2 ratio as recommended by product guidelines to seal porous substrates).
- Apply one uniform coat of the diluted primer across the entire surface using a brush or roller to promote maximum adhesion. Allow it to dry tack-free (approx. 1 to 2 hours).

STEP 3: Topcoat Application (Waterproofing Membrane)

- **First Coat:** Apply Kesari Black Armor PU neatly (undiluted) or with minimal water addition for workability, using a stiff brush, roller, or airless spray.
- **Reinforcement:** For high-stress zones, foundation junctions, or construction joints, embed a reinforcing polyester or glass-fiber mesh into the wet first coat.
- **Second Coat:** Once the first coat has dried completely (approx. 4 to 6 hours), apply the second coat perpendicularly (at a 90-degree angle) for uniform dry film thickness.
- **Coverage:** Typically yields approx. 3 to 4 sq. meters per kg for a complete 2-coat system over a primed surface.

3. Important Precautions & Limitations

- **UV Exposure:** Kesari Black Armor PU is bituminous-based and **not resistant to prolonged direct UV (sunlight) exposure**. Protect with a screed, plaster, or backfill when used externally.
- **Solvent & Chemical Restrictions:** Do not mix with organic solvents, thinners, or kerosene. Use only clean potable water for any required dilution.
- **Backfilling Protocol:** Allow the coating system to cure fully for at least 48 to 72 hours before backfilling foundation trenches to prevent mechanical damage.