

Kesari Flexi Top

Kesari Flexi Top is a heavy-duty, ready-to-use, elastomeric liquid waterproofing coating engineered specifically for building roofs, terraces, and exposed concrete structures. Formulated from highly resilient acrylic polymers, weather-durable pigments, micro-fibers, and specialized fungicides, it establishes a seamless, high-tensile protective barrier with superior crack-bridging and UV resistance.

1. Product Technical Overview & Specifications

Technical Parameter	Description / Specification
Product Name	Kesari Flexi Top
Nature / Form	Single-component, ready-to-use liquid acrylic polymer emulsion with micro-fibers
Color & Finish	Standard White (High solar heat reflectivity)
Packaging Sizes	Available in 25 kg, 30 kg, 50 kg, and 100 kg containers
Shelf Life	12 months in unopened, original containers in cool, dry conditions
Elongation at Break	Over 250% (exceeding standard requirements)
Water Absorption	Very low (< 0.2%)

Core Functions	Heavy-duty terrace waterproofing, exposed roof membrane, crack-bridging layer, and heat-reflective coating.
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2. Recommended Areas of Application

- Exposed concrete roofs, flat terraces, and podium decks
- Balconies, sunshades, and parapet walls
- Wet areas, planter boxes, and slab foundations
- Over existing sound cementitious waterproofing surfaces, screeds, and plaster

3. Core Application Systems & Execution Protocol (Three-Layer System)

Step 1: Surface Preparation

- Ensure substrate is sound, stable, clean, and free from dust, oil, grease, loose particles, efflorescence, and laitance.
- Clean mechanically using a wire brush, scraper, or high-pressure water jet. Allow complete drying.
- Inspect and repair structural cracks or honeycombs using Kesari Crackfiller or polymer-modified repair mortar.

Step 2: Priming Coat

- Apply a priming coat consisting of Kesari Flexi Top diluted with clean water (1 part water to 2-3 parts Flexi Top) to seal pores and maximize bond strength.
- Allow the primer coat to dry completely for approximately 2 to 3 hours.

Step 3: Multi-Layer Membrane Application

- **First Layer (Base Coat):** Apply Kesari Flexi Top undiluted uniformly across the primed surface. Embed anti-crack glass fiber mesh in high-stress zones if required.
- **Subsequent Layers:** Allow preceding coat to dry for 4 to 6 hours, then apply second and third layers perpendicularly (90-degree angle) to complete buildup.
- **Coverage & Curing:** Yields ~1.5 to 2 sq.m per kg per 2 coats. Allow 7 days to cure fully before heavy foot traffic or water ponding tests.

4. Important Precautions & Limitations

- **Weather Windows:** Do not apply if rain is expected within 4-6 hours or during high humidity/freezing conditions. Protect fresh applications.
- **Roof Slopes:** Ensure proper structural gradients toward drainage outlets to avoid stagnant water ponding for extended periods.
- **Safety:** Use appropriate personal protective equipment (PPE) such as rubber gloves and protective eyewear during handling.