

# Kesari Aqua-Con Plus

**Kesari Aqua-Con Plus** is a premium, specialty styrene-acrylic latex liquid polymer engineered for high-performance cementitious waterproofing coatings, structural bonding, and concrete/mortar repair. Manufactured using advanced emulsion polymerization technology, it improves flexural, tensile, and bond strengths while offering exceptional resistance to UV radiation, salt crystallization, and water ingress.

## 1. Product Technical Overview & Specifications

| Technical Parameter             | Description / Specification                                         |
|---------------------------------|---------------------------------------------------------------------|
| Product Name                    | Kesari Aqua-Con Plus                                                |
| Nature / Form                   | Milky white, pourable liquid specialty styrene-acrylic latex        |
| Packaging Sizes                 | Available in 1 kg, 5 kg, 20 kg, 26 kg, 50 kg, and 100 kg containers |
| Shelf Life                      | 12 months in unopened, original containers in cool, dry conditions  |
| Total Solids                    | 43 ± 1%                                                             |
| Specific Gravity                | ~1.03                                                               |
| Pot Life (Latex-Cement 1.0:1.5) | 35 to 45 minutes                                                    |

|                |                                                                                                                              |
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| Core Functions | Waterproofing for roofs/basements, structural bonding, anti-corrosive slurry for rebars, and polymer-modified mortar repair. |
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## 2. Recommended Areas of Application

- Roof terraces, balconies, and podiums
- Water tanks, sumps, reservoirs, and swimming pools
- Basement waterproofing and retaining walls
- Structural repair of damaged RCC beams, columns, and slabs
- Bonding agent for cold joints and screed mortars

### 3. Core Application Systems & Execution Protocols

#### SYSTEM A: Waterproofing Coating Protocol

- **Surface Preparation:** Strip off old degraded treatments, clean dust/oil, and pre-wet substrate to achieve a Saturated Surface Dry (SSD) condition with no standing water.
- **Mix & Apply:** Mix Kesari Aqua-Con Plus and fresh cement in a **1.0 : 1.5 ratio by weight** (always add cement into latex, never latex into cement).
- **Application & Curing:** Apply two perpendicular coats, allowing 4-5 hours between coats. Air-cure for 72 hours, then lay a protective 15-20 mm cement-sand screed (1:3 ratio).

#### SYSTEM B: Structural Bonding Agent (Old-to-New Concrete)

- Prepare and pre-wet concrete to SSD. Mix Kesari Aqua-Con Plus with fresh cement in a **1.0 : 1.5 proportion by weight**.
- Brush-apply a single uniform bonding coat. **Crucial Rule:** Pour or place fresh concrete or mortar immediately while the bonding coat is still tacky.

#### SYSTEM C: Floor & Mortar Repair System

- Chip out damaged concrete down to a minimum depth of 12 mm, clean, and pre-wet to SSD. Apply a latex-cement slurry bond coat (1.0 : 1.5).
- While tacky, apply a polymer-modified repair mortar prepared using Kesari Aqua-Con Plus , cement, and well-graded quartz sand in layers of 15 mm to 20 mm.

### 4. Important Precautions & Limitations

- **Mixing Order:** Always add cement slowly into the latex polymer, **never** pour latex into dry cement.
- **Cement & Aggregates:** Use fresh OPC/PPC cement and clean, well-graded, sharp aggregates. Avoid hard water.
- **Tackiness Window:** Never allow slurry bond coats to dry completely before placing fresh mortar or concrete.