

Kesari Injector Lv Ep Wet is an advanced, high-performance, moisture-insensitive, 3-component epoxy resin-based system engineered specifically for demanding structural grouting, anchoring, and repair applications in dry, damp, wet, or fully submerged (underwater) conditions.

1. 3-Component Product Variations & Mix Ratios

Product Variant	Mixing Ratio (By Weight)	Standard Packaging	Primary Application
Kesari Injector Lv Ep Wet Grout	Part A : Part B : Part C = 2 : 1 : 8	11 kg pre-batched set (A: 2kg, B:1kg, C:8kg)	Free-flowing precision under-grouting of machinery & bridge bearings in wet areas.
Kesari Injector Lv Ep Wet Mortar	Part A : Part B : Part C = 2 : 1 : 18	Pre-batched sets (A:1kg, B:0.5kg, C:9kg)	Non-sag structural concrete repair & vertical/overhead patching in damp conditions.

2. General Technical Parameters

- **Chemical Base:** 2-part liquid epoxy resin (Parts A & B) + Selected inert aggregate filler (Part C).
- **Shelf Life:** 12 months from production date in unopened, original containers.
- **Storage Conditions:** Store in dry conditions between +5°C and +40°C, protected from direct sunlight.
- **Application Temperature:** Substrate and ambient temperature between +10°C and +30°C.

3. Recommended Areas of Application

- **Marine & Hydraulic Structures:** Dams, spillways, jetties, piers, and underwater tunnels.
- **Industrial Infrastructure:** Base plates for heavy reciprocating machinery, crane rails, and structural anchoring bolts.
- **Sub-structures:** Wet basements, damp retaining walls, and structural elements needing high early strength under moisture.

4. Comprehensive Execution & Mixing Protocol

Step 1: Substrate Preparation

- Substrates must be sound, clean, and free from oil, grease, laitance, old coatings, and loose friable particles.
- Prepare concrete surfaces via abrasive blast cleaning or high-pressure water blasting to open the matrix. Steel must be blast-cleaned to Sa 2.5.
- The system is moisture-tolerant and can be applied in damp or wet conditions, but standing water or mud must be removed.

Step 2: Precise 3-Part Mixing Procedure

- **Conditioning:** Ensure material is conditioned at +10°C to +30°C prior to mixing.
- **Blend Liquids:** Pour Component B into Component A. Mix for at least 3 minutes using a slow-speed electric drill (max 400–600 rpm) with a paddle until uniform.
- **Add Aggregate Powder:** Slowly add Component C (aggregate filler bag) into the liquid blend while continuously stirring for 2 to 3 minutes until lump-free and homogeneous. Mix only full units.

Step 3: Application & Curing

- **Application:** Pour continuously (for grout) ensuring adequate head pressure, or apply firmly via trowel (for mortar) within the pot life (~20 minutes at +30°C).
- **Curing:** Cures chemically without shrinkage. Protect fresh applications from extreme temperature shocks.
- **Tool Cleanup:** Clean tools immediately after use with Kesari Cleaner or approved solvents. Hardened material can only be removed mechanically.

5. Critical Precautions & Limitations

- **Pot Life Warning:** Exothermic reaction accelerates quickly in large masses. Pot life is approximately 20 minutes at +30°C. Mix only what can be applied immediately.
- **Ratio Integrity:** Never alter pre-batched ratios or add unauthorized solvents or water.
- **Safety Gear:** Always wear protective gloves, safety goggles, and protective clothing during handling.