

KA Tanking Slurry

Professional tools and equipment guide — installer-ready reference for mixing, application, substrate preparation, detailing, curing, safety, quality control and cleanup.

Technical Helpline: 01872 879011

Use this guide as an on-site kit checklist: confirm all mandatory mixing, preparation, application, safety and quality-control equipment is available before starting work. Use the recommended tools to improve finish, consistency and installation evidence.

1. Essential Tools for Mixing

These tools ensure correct consistency, working time, and mixing quality.

MANDATORY

- **Mechanical paddle mixer** Ensures lump-free, custard-like consistency (TDS reference: “Mix mechanically to a smooth, lump-free consistency.”)
- **Mixing bucket (20–30 L)** Clean, rigid plastic bucket for accurate water measurement.
- **Measuring jug (5–10 L)** For precise water and SBR ratios.
- **Rubber mallet** For tapping bucket sides to release dry pockets.
- **Stirring paddle (manual)** For quick remix after standing.

RECOMMENDED

- **Slow-speed drill (400–600 rpm)** Prevents air entrainment and premature stiffening.
- **Digital scale** For exact powder measurement on partial mixes.

2. Essential Tools for Application

These tools ensure correct thickness, coverage, and finish.

BRUSH APPLICATION

- **Medium-hard bristle brush** (TDS reference: “Use a medium hard short bristle type.”)
- **Block brush (100–150 mm)** For large wall areas.
- **Detail brush (50 mm)** For corners, junctions, penetrations.

TROWEL APPLICATION

- **Steel finishing trowel** For polished second-coat finish.
- **Plastic trowel** Reduces drag on porous substrates.
- **Margin trowel** For tight areas and edges.

SPRAY APPLICATION

- **Peristaltic pump or hopper gun** For large commercial areas.
- **Spray lance with adjustable nozzle** For controlled coat thickness.
- **Compressor (min 6–8 bar)** For consistent spray pattern.

3. Tools for Substrate Preparation

These tools ensure the substrate is clean, porous, and ready for slurry penetration.

MANDATORY

- **High-pressure water jetting machine** (TDS reference: “Recommended preparation methods include high-pressure water jetting.”)
- **Grit blaster** For removing coatings, laitance, bitumen.
- **Mechanical scabbler** For opening capillaries on dense concrete.
- **Wire brushes** For small areas and detail cleaning.
- **Vacuum extractor (HEPA)** For dust removal after mechanical prep.

RECOMMENDED

- **Moisture sprayer / misting bottle** For pre-wetting and preventing rapid drying.
- **Sponge and bucket** For controlled saturation on delicate substrates.

4. Tools for Fillets, Junctions and Penetrations

These tools ensure continuity at critical detailing points.

MANDATORY

- **Angle grinder with diamond blade** For 15 mm × 45° chases (TDS reference: “Form a saw cut approximately 15 mm deep at 45 degrees.”)
- **Fillet trowel** For KA Fillet Seal installation.
- **Sealant gun** For KA Infinity Sealant & Adhesive.
- **Jointing tools** For smoothing around pipework and steelwork.

5. Tools for KA Super Plug: Active Water Ingress

ACTIVE LEAK RESPONSE

- **Gloves (chemical-resistant)** (COSHH reference: “Wear rubber, latex, neoprene or other chemical-resistant gloves.”)
- **Hand moulding tools** For forming plugs.
- **Stopwatch** For 30-second hold time (TDS reference: “Press into the leak for approximately 30 seconds.”)

6. Tools for Curing and Protection

These tools ensure correct moisture retention and prevent premature drying.

MANDATORY

- **Polythene sheeting** For covering fresh slurry in hot/windy conditions.
- **Geotextile membrane** For protecting external tanking before backfilling.
- **Water sprayer** For misting during early cure (TDS reference: “Lightly mist the first coat before applying the second.”)

RECOMMENDED

- **Thermometer / hygrometer** For monitoring environmental conditions.
- **Ventilation fans** For reducing condensation (not dehumidifiers).

7. PPE and Safety Equipment

From COSHH SDS:

MANDATORY

- **FFP2 or FFP3 dust mask** (COSHH reference: “Use a dust mask with at least FFP2 protection.”)
- **Safety goggles / face shield** (COSHH reference: “Wear tightly fitting safety goggles.”)
- **Chemical-resistant gloves**
- **Long-sleeved clothing**
- **Safety boots**
- **Hi-vis vest**

RECOMMENDED

- **Knee pads**
- **Hard hat**
- **Ear protection** (for mechanical prep)

8. Tools for Quality Control and Verification

These tools ensure the installation meets KA standards.

MANDATORY

- **Wet film thickness gauge** For verifying 2–3 mm per coat.
- **Straight edge (1–2 m)** For checking uniformity.
- **Inspection torch** For detecting pinholes.
- **Camera / phone** For recording installation evidence.

RECOMMENDED

- **Moisture meter** For confirming SSD (saturated surface dry) condition.
- **Crack width gauge** For assessing repair requirements.

9. Tools for Cleanup

- **Buckets of clean water** (TDS reference: “Clean tools and spillages with water before the material hardens.”)
- **Scrapers** For removing hardened slurry.
- **Brushes** For cleaning equipment.

Sources: KA Tanking Slurry Technical Data Sheet, KA Tanking Standard Specification, KA Super Plug guidance and COSHH SDS safety guidance.