

# KA Tanking Slurry

Professional mixing and application guide — installer-ready procedure for preparing, mixing, applying, curing and finishing KA Tanking Slurry.

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## Mixing and Application Procedure

**Use this guide as an on-site checklist:** prepare and saturate the substrate, mix only workable quantities, apply two continuous coats, detail all junctions and penetrations, then cure and finish in line with the guidance below.

### 1. Prepare the Substrate

#### CRITICAL

A clean, porous, saturated substrate is essential for crystalline penetration.

- Remove paint, bitumen, waterproofing liquids, oils, dust, laitance, loose material.
- Use **high-pressure water jetting, grit blasting, or mechanical scabbling**.
- Fully saturate the surface with clean water before mixing slurry.
- Repair cracks using **3:1 sand/cement mortar gauged with KA-Bond SBR**.
- Ensure the substrate is damp but not dripping.

### 2. Mix the Slurry

#### START HERE

Mix only what can be applied within 30 minutes.

**Mixing Ratio:** 3 parts KA Tanking Slurry : 1 part clean water (by volume)

- Add powder slowly into water.
- Mix mechanically to a smooth, lump-free, custard-like consistency.
- Do **not** re-temper stiffened material — discard and mix fresh.
- Typical water content: ~5 L per 25 kg bucket when using SBR-enhanced gauging liquid.

### 3. Apply the First Coat

#### RECOMMENDED

The first coat forms the initial crystalline barrier.

- Apply by **brush, trowel, or spray**.
- Coat thickness: **2–3 mm**.
- Ensure full coverage across walls, floors, junctions, and penetrations.
- Maintain a continuous, unbroken layer — no pinholes or missed areas.

## 4. Apply the Second Coat

### IMPORTANT

The second coat must be applied at right angles to the first.

- Apply once the first coat is **touch-dry** (typically 4–6 hours).
- Must be applied **within 24 hours** of the first coat.
- Apply horizontally if the first coat was vertical, and vice-versa.
- Trowelling the second coat can produce a polished finish.

## 5. Enhanced Application with KA-Bond SBR

### OPTIONAL UPGRADE

SBR improves adhesion, bonding, and durability.

- Apply **KA-Bond SBR diluted 1:1 with water** as a bonding coat.
- Allow 10–15 minutes to become tacky — do **not** allow to dry.
- For each 25 kg bucket, incorporate **1 L KA-Bond SBR** into ~5 L water.
- Use SBR specification for porous or difficult substrates.

## 6. Wall/Floor Junctions and Penetrations

### DETAIL WORK

Critical areas must be sealed to maintain continuity.

- Cut a **15 mm deep 45° chase** at wall/floor junctions and allow slurry to flow in.
- Alternatively apply **KA Fillet Seal** (25 mm vertical × 25 mm horizontal).
- Tank tightly up to pipework and steelwork.
- Bridge remaining gaps with **KA Infinity Sealant & Adhesive**.

## 7. Curing and Protection

### SAFETY

Moist curing ensures crystalline development and waterproofing performance.

- Maintain moist conditions for **minimum 3 days**.
- Avoid heaters or dehumidifiers during early curing.
- Provide ventilation to reduce condensation.
- Protect from rapid drying, frost, direct sun, or strong wind.
- Mist lightly in hot conditions before applying the second coat.

## 8. Plastering and Rendering

### AFTERCARE

Use SBR bonding systems for plaster or render over slurry.

- Plaster: Apply **KA-Bond SBR diluted 1:1**, allow to become tacky, then plaster.
- Render: Use bonding slurry (2 sand : 1 cement, gauged with 1:1 SBR/water).
- Apply render **before bonding slurry dries**.
- Allow **6 months** before permanent decoration; use permeable emulsions only.

## 9. Cleaning and Safety

### HAZARD

Follow COSHH guidance for safe handling.

- Clean tools with water before material hardens.
- Wear **FFP2 dust mask**, chemical-resistant gloves, goggles, long sleeves.
- Avoid inhalation of dust.
- If ingested: rinse mouth, do **not** induce vomiting.
- If in eyes: irrigate immediately and seek medical attention.

**Sources:** KA Tanking Slurry Technical Data Sheet 2026 Edition, KA Tanking Standard Specification including KA-Bond SBR, and KA Tanking Slurry COSHH SDS.