

# KA Building Products

## KA Tanking Slurry

### Technical Datasheet

**Cementitious crystalline waterproofing slurry for concrete, masonry and cementitious substrates**

For internal and external use, above and below ground, where a durable waterproof barrier is required.

|                           |                   |
|---------------------------|-------------------|
| <b>Document Reference</b> | KA-TDS-TS-001     |
| <b>Version</b>            | Version 1.0       |
| <b>Date of Issue</b>      | 11 July 2026      |
| <b>Product</b>            | KA Tanking Slurry |

## Company Details

### KA Building Products

Kenyon Agencies Ltd trading as KA Building Products  
Cornwall, United Kingdom

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## Product Description

KA Tanking Slurry is a cement-based crystalline waterproofing coating designed for use on structurally sound concrete, blockwork, brickwork, render and other suitable cementitious substrates. When mixed with clean water and applied correctly, the system forms a dense waterproof coating and supports crystalline development within pores and capillaries, helping to resist water ingress through the treated surface.

## Typical Uses

- Basements, cellars and below-ground structures
- Retaining walls, foundations and lift pits
- Internal and external masonry walls
- Concrete floors and walls subject to damp or water pressure
- Wet rooms, shower areas and service areas prior to suitable finishes
- Wall-floor junctions when used as part of the KA waterproofing system

## Features and Benefits

- Two-coat waterproofing system for concrete and masonry
- Suitable for positive and negative water pressure applications where correctly specified
- Brush-applied for practical site installation
- Water-based and solvent-free
- Compatible with appropriate cementitious renders and mortars once cured
- Can be used with KA Super Plug and KA Fillet Seal for complete detailing
- Suitable for damp substrates prepared to a saturated surface dry condition

## Technical Data

| Property                  | Typical Value                                                                                |
|---------------------------|----------------------------------------------------------------------------------------------|
| Product type              | Cementitious crystalline waterproofing slurry                                                |
| Colour                    | Grey powder                                                                                  |
| Pack size                 | 25 kg bag                                                                                    |
| Mixing ratio              | 25 kg powder to 7–8 litres clean water                                                       |
| Application method        | Block brush, stiff masonry brush or suitable spray equipment                                 |
| Recommended coats         | Minimum two coats                                                                            |
| Coverage guide            | Approximately 1.5–2.0 kg/m <sup>2</sup> per coat depending on substrate profile and porosity |
| Total application rate    | Approximately 3.0–4.0 kg/m <sup>2</sup> for a two-coat system                                |
| Working time              | Typically 30–60 minutes depending on temperature and site conditions                         |
| Application temperature   | +5°C to +25°C recommended                                                                    |
| Substrate condition       | Clean, sound, absorbent and saturated surface dry                                            |
| Initial protection period | Protect from rapid drying, rain, frost and direct sun for at least 24 hours                  |

## Coverage per 25 kg Bag

| Application Rate               | Estimated Coverage per 25 kg Bag           | Notes                                                 |
|--------------------------------|--------------------------------------------|-------------------------------------------------------|
| 1.5 kg/m <sup>2</sup> per coat | Approximately 16.5 m <sup>2</sup> per coat | Light application on smoother, less porous substrates |

|                                             |                                                         |                                                         |
|---------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|
| 2.0 kg/m <sup>2</sup> per coat              | Approximately 12.5 m <sup>2</sup> per coat              | Heavier application on more open or textured substrates |
| 3.0 kg/m <sup>2</sup> total two-coat system | Approximately 8.3 m <sup>2</sup> total system coverage  | Lower total build two-coat application                  |
| 4.0 kg/m <sup>2</sup> total two-coat system | Approximately 6.25 m <sup>2</sup> total system coverage | Higher total build two-coat application                 |

Coverage is approximate and will vary depending on substrate profile, porosity, surface preparation, application thickness and site conditions. Always allow for wastage and uneven backgrounds when estimating material requirements.

## Suitable Substrates

KA Tanking Slurry is suitable for use on concrete, dense concrete blockwork, brickwork, stonework, cementitious render and other structurally sound mineral substrates. Substrates must be clean, mechanically prepared, absorbent and free from coatings or contamination that may inhibit adhesion.

- Concrete and reinforced concrete where structurally sound
- Brickwork and blockwork with sound mortar joints
- Stonework where stable and correctly prepared
- Cementitious render and mortar backgrounds
- Internal and external walls and floors above or below ground

## Substrate Preparation

Correct substrate preparation is essential. All surfaces must be structurally sound, clean and free from paint, plaster, gypsum, dust, oils, salts, loose material, laitance and any previous coatings that may prevent adhesion. Dense or smooth concrete should be mechanically keyed to open the surface and improve bond.

- Remove all loose, friable or contaminated material.
- Mechanically prepare surfaces by wire brushing, grinding, scabbling or suitable blasting where required.
- Rake out defective mortar joints and reinstate with suitable repair mortar.
- Stop active water leaks using KA Super Plug before slurry application.
- Form internal wall-floor junctions with KA Fillet Seal where required.
- Pre-dampen the substrate to a saturated surface dry condition before application.

## Mixing Instructions

Use clean water and clean mixing equipment. Add the required water to a clean bucket first, then slowly add KA Tanking Slurry powder while mixing with a low-speed paddle mixer until a smooth, lump-free, brushable slurry is achieved.

**Recommended mixing ratio:** 25 kg KA Tanking Slurry powder to 7–8 litres clean water. Adjust only slightly to suit substrate and application conditions. Do not over-water.

- Pour clean water into the mixing container first.
- Slowly add powder while continuously mixing.
- Mix for 2–3 minutes until smooth and consistent.
- Allow to stand briefly, then remix before use.
- Do not add cement, sand, admixtures or other materials unless approved by KA Building Products.
- Discard material that has begun to stiffen; do not retemper with excess water.

## Application Instructions

Apply KA Tanking Slurry in a minimum of two coats to the prepared saturated surface dry substrate. Work the first coat firmly into the surface using a block brush or stiff masonry brush. Apply the second coat at right angles to the first once the first coat has firmed sufficiently but has not fully dried out.

- Dampen the surface before application; avoid standing water or shiny wet surfaces.
- Apply the first coat at approximately 1.5–2.0 kg/m<sup>2</sup>.
- Ensure full coverage with no pinholes, voids or missed areas.
- Allow the first coat to firm up, typically 2–4 hours depending on conditions.
- Lightly dampen if the first coat has dried before the second coat is applied.
- Apply the second coat perpendicular to the first at approximately 1.5–2.0 kg/m<sup>2</sup>.

## Detailing and System Products

For best performance, KA Tanking Slurry should be used as part of a complete KA waterproofing system. Particular attention should be given to joints, cracks, penetrations and any points of active water ingress.

- **KA Super Plug:** rapid-setting plugging compound for active leaks and water ingress.
- **KA Fillet Seal:** used to form a 25–50 mm radius cove at wall–floor junctions and internal corners.
- **Cracks and voids:** open out, clean, dampen and fill before slurry application.
- **Pipes and penetrations:** ensure a continuous waterproof coating is formed around all service entries.

## Curing and Protection

Freshly applied KA Tanking Slurry must be protected from rapid drying, frost, rain, standing water, direct sunlight and strong wind. Maintain light moisture where required to support curing, particularly in warm, dry or exposed conditions.

- Protect for at least 24 hours after application.
- Do not allow the coating to dry too rapidly.
- Do not expose to frost during curing.
- Allow at least 24 hours before applying suitable cementitious render or mortar.

- Allow at least 48 hours before fixing suitable boards or drylining systems, subject to site conditions.

## Finishing

Once cured, KA Tanking Slurry may receive suitable breathable cementitious finishes. Finishes should not be applied until the slurry has achieved adequate cure and the surface has been inspected for full coverage and continuity.

- Suitable cementitious render may be applied after the recommended curing period.
- Breathable finishes are preferred where moisture vapour movement is expected.
- Avoid impermeable decorative coatings until the system has fully cured and site moisture conditions are understood.
- Always confirm compatibility of subsequent finishes before application.

## Limitations

Do not apply KA Tanking Slurry to unsuitable or poorly prepared substrates. The product is not designed to compensate for structural movement, unstable backgrounds or ongoing defects that have not been correctly repaired.

- Do not apply over paint, plaster, gypsum, wallpaper, bitumen, membranes or friable materials.
- Do not apply to wood, plastic, metal, flexible substrates or surfaces subject to movement.
- Do not apply below +5°C or where temperatures may fall below +5°C during curing.
- Do not apply in direct strong sunlight, heavy rain or freezing conditions.
- Do not over-water or retemper material once it has begun to stiffen.
- Do not bridge live structural cracks without appropriate repair or movement detailing.

## Storage and Shelf Life

Store KA Tanking Slurry in original unopened packaging, clear of the ground, in cool, dry conditions. Protect from moisture, frost and direct sunlight. Shelf life is dependent on packaging, storage conditions and batch information. Always refer to the packaging and batch label before use.

## Cleaning

Clean tools and equipment with clean water immediately after use. Hardened material must be removed mechanically.

## Health and Safety

KA Tanking Slurry contains cement and may cause skin and eye irritation. Wear suitable gloves, eye protection and protective clothing. Avoid inhalation of dust during mixing. In case of contact with eyes, rinse immediately with clean water and seek medical advice if irritation persists. Always refer to the current Safety Data Sheet before use.

## Technical Support

For project-specific advice, substrate assessment, specification support or compatibility questions, contact KA Building Products technical support before application.

## Important Notice

The information contained in this technical datasheet is provided in good faith and is based on current knowledge, typical site practice and laboratory guidance at the date of issue. Because substrates, workmanship, environmental conditions and project requirements are outside the control of KA Building Products, no warranty is given or implied beyond the quality of the product as supplied. Users must satisfy themselves that the product is suitable for the intended application and must ensure that all work is carried out by competent persons in accordance with relevant British Standards, building regulations, project specifications and good building practice. Always refer to the latest version of this datasheet and the current Safety Data Sheet before use.