

TOPTANK

Code 151PTG Grey, 151PTW White
25kg in Plastic Tubs

Biokil Crown Toptank. is a premium tanking slurry which, when mixed with clean water, forms an extremely durable waterproof coating for concrete & masonry which is easily applied by a stiff hand brush, broom or spray. Available in grey or white. Both products may be covered with a decorative finish. Walls can be left uncovered but on floors it cannot be left as the final finish. Waterproofing basement walls & floors not subject to severe water pressure. For severe pressure use the Biokil Crown Epoxy system or Biokil Crown Cavity Drainage system



Benefits of Toptank

- Resists positive & negative water pressure.
- Suitable for interior & exterior use, above & below ground level.
- Water vapour permeable.
- High bond strength becomes integral part of the substrate.
- To be mixed with clean water only.
- Can be brush, spray or trowel applied.
- Is applied onto a damp substrate.
- Equipment to be cleaned simply with water.
- Solvent free.

Agrément Certificate 17/5444



Typical Applications

Waterproofing of:

- Basements and cellars.
- Foundations.
- Tunnels.
- Floors & walls in shower & bathroom areas prior to the application of a decorative finish.
- Swimming Pools
- Walls & Floors (but must not be left as final finish for floors).

Preparation

Substrate Preparation

Before application, all surfaces must be clean, sound & free from previous coatings & surface water. Prepare the areas to be treated by fully exposing the substrate. This is best achieved by Grit Blasting. Scrabbling or bush hammering can result in a compressed surface covering that will permit delamination. Once the surface has been prepared it should be wire brushed and pressure washed to remove any remaining dust. For application to floors, the floor screed must be removed, down to the original slab. The slab must have structural integrity & not have any cracks. Ensure there is no surface water to the area due to hydrostatic pressure penetrating the substrate. For walls showing evidence of efflorescent salts (white crystals) **Biokil Crown Anti-Sulphate Salt Neutraliser Code 148** should be used.

Rake out mortar joints to a minimum depth of 12 mm before pressure washing the whole area.

Apply a bonding coat of **Biokil Crown SBR** slurry consisting of 1 part **Biokil Crown SBR** : 1 part water mixed with fresh sulphate resistant cement to a creamy consistency. Brush thinly over the walls & render whilst still tacky. If any area dries, apply a further coat of **Biokil Crown SBR** slurry.

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Preparation (Continued)

Render to a thickness of 10mm using sharp washed sand & sulphate resistant Portland cement (**not modified cement**), gauged with 4 parts water to 1 part **Biokil Crown SBR**. Leave for 24 hours.

The floor to wall joint to be radiused using **Mapegrout Fast-Set**.

When casting new concrete, a suitable surface for the application of the product can be obtained using shutters treated with a surface release agent. When the shutters are removed, the surface is wire-brushed & washed thoroughly. To existing concrete floors, coverings must be removed & all surfaces prepared as detailed previously in this section.

Any defects are made good, & water penetration through the surface to be treated either by diverted/controlled drainage or by drilling to create drainage points to be plugged by **Lamposilex Waterplug**. Immediately prior to application, the substrate should be soaked with clean water to aid adhesion, however, free surface water must not be present.

Basements in areas containing high levels of soil or ground water sulphates (White Crystals) should be treated with **Biokil Crown Anti-Sulphate Salt Neutraliser**.

Mixing

Mixing should only be done by hand or via slow speed drill/paddle (400-600rpm). Gradually add **Biokil Crown Toptank** to water in a clean container whilst mixing at a rate of 25kg powder to 4.5 – 4.7ltrs water to achieve a thick creamy lump free consistency. Leave to stand for 10mins prior to applying. Remix & add a very small amount of water if required to restore original consistency. **Never** use more than 5.4ltrs of total water.

Mixed material must always be used within 30 minutes, or less under hot weather conditions.

Application

Note: Do not apply **Biokil Crown Toptank** to frozen substrates or if the ambient temperature is below 5°C or expected to fall below 5°C within 24 hours. Avoid application in direct sunlight. Always apply the mix to a pre-dampened surface. All work must be carried out in accordance with BS8102:2009

Biokil Crown Toptank is a minimum two coat application system. Always dampen surfaces to aid adhesion. Remove all free standing water prior to application. Apply by stiff brush, broom, trowel or traditional mortar spraying equipment. The actual thickness per coat must be between 1.0 and 2.0mm. Normal application rate is 3kg/m² for an overall two coat application. Increase to 6kg/m² for areas of excessive water pressure.

Applying the first coat: Brush, broom or trowel the mix firmly onto the pre-dampened, prepared surface. After completing 2 or 3m² finish with the brush, broom or trowel in one horizontal direction for aesthetic purposes. Care must be taken not to spread the material too thinly. When the material begins to drag or “ball”, do not add more water, but dampen the surface again.

Applying the second coat: Allow at least overnight to cure before applying subsequent coats. Ensure first coat is firm to touch. Dampen the first coat & remove excess moisture. Apply the second coat at right angles to the first coat to ensure good covering.

Note: If **Biokil Crown Toptank** is used in closed, poorly ventilated rooms, condensation may occur on the first coat. This condensation must be removed from the surface. **Biokil Crown Toptank** can be spray applied but should always be brushed home well into the sponge finished, to give a uniform surface.

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Application (Continued)

Curing

Always fine mist spray all the treated area as soon as initial set has taken place & for as long as is possible. In cold, humid or unventilated areas (e.g. cellars) it may be necessary to leave the application for a longer curing period or to introduce forced air movement. **NEVER** use dehumidifiers during curing periods.

Subsequent Overcoating: Biokil Crown Toptank is suitable for over-coating once correctly & thoroughly cured.

On walls can be left uncovered but on floors it cannot be left as the final finish.

Plaster: If plaster is to be used it must be ensured that cement based “renovating plaster” is used. Gypsum plasters must not be used.

Cement based render: Use a slurry bonding coat consisting of 2 parts sand, one part cement gauged to a brushable paste with neat **Biokil Crown SBR Bonding Agent**. Apply render whilst bonding coat is still tacky.

Final Decoration: Allow 6 months minimum to elapse before final decorative finishes are applied.

Floors: For application to floors, the floor screed must be removed down to the original slab. The slab must have structural integrity and not have any cracks. **Biokil Crown Toptank** must not be left as a final finish on floors.

Coverage

A two-layer application requires approximately 3kg/m². Increase to 6kg/ m² for areas of excessive water pressure.

Packaging

25kg plastic tubs.

Health & Safety

- Avoid breathing dust
- Wear gloves & eye protection
- Wash hands & exposed skin after use
- Material Safety Data Sheet (MSDS) available on request

Storage /Shelf Life

Biokil Crown Toptank should be stored under cover, clear of the ground & stacked not more than 3 tubs high. Protect the materials from all sources of moisture & frost.

Shelf Life;

- Grey- 9 months from date of manufacture.
- White-12 months from date of manufacture.

Technical Data / Typical Properties

Bulk density	1.25g/cm ³
Wet mixed density	2.06-2.07g/cm ³
Pot life @ 20°C	45 mins
Final Set @ 20°C	Approximately 6 hours

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