

# Technical Data Sheet

## PLATINUM TANKING SLURRY

Cementitious Waterproofing System



### Description:

Platinum Tanking Slurry is a cementitious compound that contains Portland Cement, Graded Quartz Sands, Aggregates and Chemical Additives, supplied as a powder.

Platinum Tanking Slurry is mixed with water to form a smooth paste (slurry). The slurry is applied directly to concrete or masonry structures and penetrates a short distance into capillary cracks, fissures and pores in the surface of the concrete. The presence of water and free lime causes Platinum Tanking Slurry to form insoluble crystals which block the pores and prevent the passage of water. This effectively makes the concrete watertight for the lifetime of the structure.

### Product Uses:

Platinum Tanking Slurry can be applied by brush or spray onto new or old structurally sound surfaces, either to the internal or the external side. It can be applied to both horizontal or vertical surfaces. Surfaces should be prepared to have a capillary open structure. The waterproofing barrier should run continuously around the whole structure.

Platinum Tanking Slurry is for use where the basement is above the level of the water table.

Platinum Tanking Slurry can be used for the three grades of protection in basements described in BS8102.

- **Grade 1:** For Car Parking.
- **Grade 2:** For Plant Rooms, Workshops and Garages.
- **Grade 3:** For Residential and Commercial Areas.

Platinum Tanking Slurry has passed the tests of WRAS (Water Regulations Advisory Scheme), BS6920 and is approved for drinking water structures such as reservoirs and concrete drinking water tanks.

Platinum Tanking Slurry can also be used in Swimming Pools, Retaining Walls, Tunnels and Lift Shafts.

### Preparation:

Surface Preparation is crucial and must be carried out thoroughly. The surface must present an open capillary structure to allow penetration of the crystalline chemicals.

All surfaces should be clean and free of paint systems, oils, loose dust, shutter treatments, curing compounds, surface hardeners and other contaminants. Surface Preparation can be carried out best by high pressure water jetting, grit blasting or mechanical scrubbing.

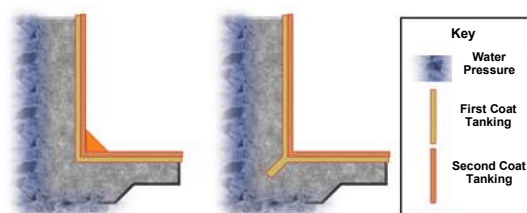
Large cracks and other defects can be repaired using a 3:1 sand : cement mortar gauged with **Platinum SBR**. Repaired areas can be coated with Platinum Tanking Slurry after 24 Hours, but large areas of new brickwork, poured concrete or cement renders should be allowed to cure for 3 days before application of Platinum Tanking Slurry.

Timber battens and fixings must be removed before treatment commences. Provision for re-fixing of battens should be made in the wall prior to application of Platinum Tanking Slurry. Drilling for fixtures should NOT be carried out after Platinum Tanking Slurry has been applied as the holes would provide a release for any hydrostatic pressure behind, with resultant of leaking water.

### Fillets:

It is recommended that **Platinum Fillet Seal** is used at internal junctions of floors and walls. If it is impractical to provide a fillet between floor and wall, then a saw cut should be made in the floor slab as close to the wall as possible and Platinum Tanking Slurry allowed to flow into the saw cut.

The Diagram shows an internal Treatment against negative pressure using a fillet (left) and a chase (right).

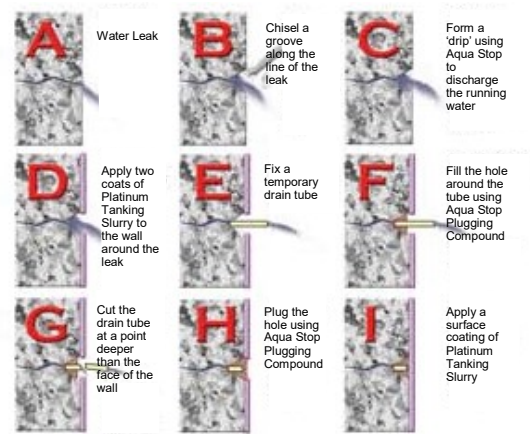


### **Plugging:**

In locations where running water is evident, this would suggest some degree of hydrostatic pressure that must be dispersed to present a satisfactory damp substrate onto which the Platinum Tanking Slurry can be applied.

**Platinum Aqua Stop Plugging Compound** is mixed 4:1 with water with a gloved hand into a ball and then placed directly onto the leaking substrate. Hold for 30 seconds or until the compound is firm to the touch.

This diagram shows the recommended procedure for plugging a water leak.



### **Mixing:**

It is important not to mix more material than can be applied within 30 minutes at 20°C, or less in hot conditions. The recommended mix ratio is approximately 2.5 to 3 parts Platinum Tanking Slurry to 1 part clean water by volume.

Pour the required amount of water into a clean bucket and add the powder slowly, mixing to a smooth lump-free consistency, i.e 25kg of Platinum Tanking Slurry will require 8 Litres of water for mixing.

If the mixed material becomes stiff, do not re-mix with water, but discard and prepare fresh material.

### **Application:**

It is critical that all surfaces being treated with Platinum Tanking Slurry are clean and have been properly prepared (see 'Preparation'). Always apply the mix to a pre-dampened surface. Porous substrates require more dampening than dense ones. Normal problems of damp and water ingress can be addressed by applying two coats of Platinum Tanking Slurry over the whole area.

Brush the first coat of mix firmly onto the pre-dampened area, using a Tanking Block Brush. The normal thickness of the first coat should be between 1mm and 1.5mm.

The second coat may be applied as soon as the first coat has become 'touch-dry'. In warm conditions, spray a fine mist of water over the surface of the first coat. Apply the second coat at right angles to the first to ensure complete coverage. This may be applied by trowel to give a dense smooth finish.

### **Coverage:**

A two-layer application requires about 3kg / m<sup>2</sup> of powder, but this depends on the roughness of the surface.

### **Ventilation and Curing:**

Uniform hardening and water tightness can be assured if the product is not allowed to dry out too rapidly, under moist conditions for at least three days. It is recommended that ventilation is provided as a lack of it may cause small condensation beads to form on the surface of the Tanking Slurry. Protect the coating against excessively fast evaporation in hot conditions or drying winds. If these conditions prevail, mist spray the surface regularly.

Dehumidifiers should not be used immediately after the application of Platinum Tanking Slurry as this would arrest the curing system.

### **Plastering or Rendering:**

Remedial Plaster Systems may be used over Platinum Tanking Slurry provided an intermediate bonding compound is employed. Dilute **Platinum SBR** with an equal volume of water and apply to the cured Tanking Slurry and allow to become tacky, but not dry. Plaster may then be applied as normal.

Where Cement Rendering is required, use an intermediate bonding slurry mixed at 2 parts Sand : 1 Part Cement gauged with a 1:1 SBR : Water mix. Apply the Slurry to the Tanking and apply the first render coat before the slurry dries.

### **Redecoration:**

A period of at least 6 months should be allowed before permanent decoration is considered. During this period use only permeable emulsion paints.

### **Cleaning:**

Spillages should be cleaned up promptly. Non hardening material may be removed from surfaces or tools with water.

**Storage Conditions:**

Store in a dry place and protect from frost. The shelf life of Platinum Tanking Slurry is at least 12 months when stored in unopened containers.

**Packaging:**

Platinum Tanking Slurry is supplied in 25Kg Buckets, in Grey or White colours.

**Health & Safety:**

Protect eyes and skin from contact. Freshly made Platinum Tanking Slurry is alkaline, the use of suitable gloves and eye protection is recommended.

Powdered products should be handled to minimise dust formation. In a confined area or if excessive dust is formed, a suitable dust mask should be worn.

A full Safety Data Sheet is available on request.

Date: November 2018