

Drybase® TS-PLUS Polymer Enhanced Tanking Kit

Product Description

Drybase® TS-PLUS Polymer Enhanced Tanking Kit is a two-component tanking kit for waterproofing damp walls, cellars, basements and water features. It includes a high-strength liquid polymer that is added to a graded cementitious waterproofing powder to form an enhanced waterproofing slurry. The slurry provides improved workability and adhesion and has been successfully tested up to 5-bar hydrostatic water pressure. The kit provides enough material for two coats to be applied.

Areas of Application

- Waterproofing for residential/domestic basements
- Concrete and masonry
- Active or passive waterproofing
- Interior and exterior waterproofing
- Foundations, slabs, retaining walls
- Conforms to BS 8102:2022 as a polymer-cement based waterproof coating for Type A shallow basement structures

Benefits

- Kit includes – 2 × 5 kg powder and 2 × 1 Litre liquid polymer
- Increases waterproofing for below-ground areas
- Improved adhesion and workability
- Resistant to salt efflorescence
- Suitable for areas of potential cracking
- Trowel, brush or spray applied

Properties

Appearance	<i>Part A Liquid Polymer</i> – milky white liquid <i>Part B Powder</i> – grey powder
Packaging	12 kg plastic bucket. Contains: 2 × 5kg bags and 2 × 1 litre sachets
Pot Life at 20 °C	Approx. 30 mins
Setting time at 20 °C	4 – 6 hours
Hydrostatic Water Pressure (EN 12390-8)	5 bar
Capillary Water Absorption	≤ 0.5 kg/m ² ·h ^{0.5}
Storage	Keep in dry conditions at a temperature of 5 °C to 35 °C. Protect from frost
Shelf Life	12 months

Climatic variations such as temperature, humidity, and porosity of substrate may affect these values.



Consumption

Type of water impact	Recommended total application rate	Coverage for 10 kg powder + 2 litres liquid polymer	Total layer thickness based on 2 coats applied
Pressureless water	3.5 – 4.5 kg/m ²	2 – 2.5 m ²	2 mm
Water under pressure	3.5 – 5.5 kg/m ²	1.75 – 2.5 m ²	2 – 3 mm

Coverage rates based on application to smooth concrete. Coverage rates are likely to be lower on rougher surfaces.

Application Information

Preparation: Concrete Substrates

The substrate to be treated must be sound and even, open-pored, roughened and its surface free from voids, large cracks or ridges. Any substances such as bitumen, oil, grease, or remains of paint or laitance, which could reduce adhesion, should be removed by suitable means prior to application of **Drybase® TS-PLUS Polymer Enhanced Tanking Slurry**.

Water leaks must be stopped e.g. with Drybase® Waterproof Plug before **Drybase® TS-PLUS Polymer Enhanced Tanking Slurry** can be applied. Make localised repairs using Drybase® Universal Mortar.

Prior to the application of **Drybase® TS-PLUS Polymer Enhanced Tanking Slurry**, thoroughly moisten the substrate. It must be damp but not wet at the time of application. Any surface water on horizontal surfaces must be removed.

Preparation: Brick and Blockwork Substrates

Any remaining plaster, render or other substances that could inhibit bonding must be removed back to the substrate. Gypsum, remains of wood or other foreign material must be removed by appropriate means. Loose pointing must be routed out and the substrate cleaned thoroughly.

Unless the substrate is particularly sound, the application of a render is recommended prior to application of **Drybase® TS-PLUS Polymer Enhanced Tanking Slurry**. Pre-wet the walls to control suction and apply a nominal 10 mm thick, 3:1 sand:cement render (sharp washed sand). The render should be compacted onto the wall and left with an open textured finish, such as that left by a wood float. Allow the render to cure for at least 24 hours before applying **Drybase® TS-PLUS Polymer Enhanced Tanking Slurry**.

Mixing

Before use, shake the sachets of the polymer component well. Add the 1 litre of Drybase® TS-Plus Part A Polymer Liquid to the mixing container, and then add the 5 kg of Drybase® TS-Plus Tanking Slurry Powder and mix for at least 3 minutes to a lump-free, homogeneous consistency using a high-speed mechanical mixer.

After the first coat has been applied, mix the other Part A Polymer Liquid with the Part B Slurry Powder in the same way as described earlier.

Application



Drybase® TS-PLUS Polymer Enhanced Tanking Slurry can be applied by trowel, brush or suitable spray equipment.

Depending on the slurry consistency a maximum of 4 kg/m² can be applied in one working cycle. In most cases the application of more than one coat is recommended; please refer to relevant specifications. Do not apply at temperatures below +5 °C, or to a frozen substrate.

If several coats are applied the previous coat must not be damaged during application of the following coat. The waiting time before applying the following coat depends on local climatic conditions such as humidity, temperature, etc. The previous coat should be textured by suitable means whilst still plastic to form a key.

Trowel Application

First a scratch coat is applied for maximum adhesion to the substrate, working from the bottom up. Ensure that all cavities in the substrate are filled in order to exclude any trapped air. It is recommended that the first layer is textured slightly using a suitable brush (wallpapering brush) whilst still plastic to ensure maximum adhesion between the layers.

Brush Application

Using a suitable brush (e.g. mason's brush) the slurry should be applied from the bottom upwards, with excess material worked sideways. Ensure that all cavities in the substrate are filled. It is important when applying by brush that the correct thickness of material is applied – the brush should be used as a soft trowel, not as a paint brush.

Spray Application

Drybase® TS-PLUS Polymer Enhanced Tanking Slurry can be applied with a suitable fine mortar spraying device.

For maximum spray pattern it should be possible to adjust volume of product as well as air pressure and volume. The nozzle diameter is approx. 6 mm.

The first layer of **Drybase® TS-PLUS Polymer Enhanced Tanking Slurry** is applied in a circular motion with the spray nozzle held at a 90° angle to the substrate. The material is then flattened and keyed. The final layer can be left as a spray finish or treated to a specified finish. Make sure to clean the sprayer after application is complete to prevent material setting in the equipment. Consult with Safeguard for further information about spraying.

Curing

Provide suitable protection against extreme weather conditions (e.g. rain, sun, wind, frost) while setting. The freshly treated surfaces should be protected from rain for a minimum period of 24 hours. During hot periods, cover the surface with sheeting and if necessary dampen the surface with water during the first few days of curing to reduce excess drying of the surface.

Drybase® TS-PLUS Polymer Enhanced Tanking Slurry can sometimes appear to 'sweat', just after application. Water vapour in the air can condense onto the surface, giving the impression of water penetration. High moisture vapour levels can be created by application and curing of the coatings, as well as subsequent screeds etc. and will normally reduce once heating and ventilation have been introduced.

After applying **Drybase® TS-PLUS Polymer Enhanced Tanking Slurry** to a pond, it is essential to allow the coating to fully cure for 7 – 14 days depending on temperature and humidity. This curing period ensures the slurry develops its full waterproofing properties and prevents any unreacted chemicals from leaching into the water. Once fully cured, the coated surfaces should be thoroughly washed and flushed with clean water to remove any residues. Only after these steps are completed should the pond be filled, especially if it will house aquatic life, to ensure a safe and stable environment.

Backfilling

Backfilling can be carried out 3 days after completion of the **Drybase® TS-PLUS Polymer Enhanced Tanking Slurry** treatment. If there is a risk that the layer of **Drybase® TS-PLUS Polymer Enhanced Tanking Slurry** will be damaged during back-filling (sharp-edged material), it must be protected by suitable means such as Oldroyd Gtx10 membrane or a suitable protection board.

Plastering/Coating

Surfaces treated with **Drybase® TS-PLUS Polymer Enhanced Tanking Slurry**, which are to be coated or painted should be left to cure for at least 5 – 7 days to allow for any shrinkage of the coating over the initial curing period. Cracking of subsequent coats can occur if applied too soon.

When applying a plaster or render finish, a rough cast coat is required onto the final **Drybase® TS-PLUS Polymer Enhanced Tanking Slurry** surface to provide a key for subsequent coats. A sand/cement rough coat can be applied before render. For applying renovation plasters, the scratch coat of the plaster can be used, such as Dryzone® Renovation Plasters. This can be done when **Drybase® TS-PLUS Polymer Enhanced Tanking Slurry** has reached the initial set, usually between 2 – 4 hours.

If this is not practical, carefully clean the hardened **Drybase® TS-PLUS Polymer Enhanced Tanking Slurry** surface and apply an appropriate bonding agent (e.g. Drybase® Bondaid Plus SBR) prior to rendering. Decorative coatings applied on the passive water pressure side are recommended to be water vapour permeable.

Other Information

For health and safety information see the Safety Datasheet (available upon request).

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