Drybase® *TS-PLUS* Tanking Slurry

Product Description

Drybase® *TS-PLUS* Tanking Slurry is a cementitious tanking slurry for application onto prepared concrete and masonry to act as a barrier to moisture and salts. The initial and final bond of **Drybase® *TS-PLUS* Tanking Slurry** is excellent, making it suitable to be applied on horizontal and vertical surfaces. It is resistant to frost and heat after setting, but also permeable to vapour. The durable coating can be used as a tanking layer for domestic and commercial applications.

Areas of Application

- Concrete and masonry substrates
- Interior and exterior damp-proofing
- Above ground waterproofing
- Lower ground areas up to 600 mm depth

Benefits

- Excellent adhesion and workability
- Efflorescence-free
- Suitable for concrete and brick walls
- Damp and salt barrier
- Vapour open
- Trowel, brush or spray applied
- Fast mixing

Consumption

A 20 kg bag of powder will cover 3.5 – 5 m², applied in two coats at 1 – 2 mm thickness each, to a total thickness of 2 – 4 mm.

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* Tanking Slurry**.

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

Prior to the application of **Drybase® *TS-PLUS* 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* 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* Tanking Slurry**.

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

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Mixing

Add 20kg of **Drybase®** ***TS-PLUS*** **Tanking Slurry** powder to 3.5 – 4.5 litres of water and mix in a clean container for at least 3 minutes to a lump-free, homogeneous consistency. Use a high speed mechanical mixer. Clean the mixer with water immediately after mixing.

Application

Drybase® ***TS-PLUS*** **Tanking Slurry** can be applied by trowel, brush or suitable spray equipment. Do not apply at temperatures below +5 °C, or to a frozen substrate.

Depending on the slurry consistency a maximum of a 2 mm coat can be applied in one working cycle. **Drybase®** ***TS-PLUS*** **Tanking Slurry** is applied in two coats. It is recommended that the second layer is applied whilst the first layer is still damp on the surface. The waiting time before applying the second layer is approx. 2 – 4 hours, depending on local climatic conditions such as humidity, temperature, etc.

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*** **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 approximately 6 mm.

The first layer of **Drybase®** ***TS-PLUS*** **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. 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*** **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.

Backfilling

Backfilling can be carried out 3 days after completion of **Drybase®** ***TS-PLUS*** **Tanking Slurry**. If there is a risk that the layer of **Drybase®** ***TS-PLUS*** **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® products 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.

Before applying a plaster or render finish it may be necessary to apply a thin rough cast of sand and cement onto the final **Drybase®** ***TS-PLUS*** **Tanking Slurry** surface. This can be done when **Drybase®** ***TS-PLUS*** **Tanking Slurry** has reached the initial set, usually between 2 – 4 hours.

If this is not practical, carefully clean the hardened **Drybase®** ***TS-PLUS*** **Tanking Slurry** surface and apply an appropriate bonding agent (e.g. SBR or acrylic) prior to rendering. Cement-based renovation plasters such as Dryzone® Renovation Plasters are recommended. Decorative coatings applied on the passive water pressure side are recommended to be water vapour permeable.

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Properties

Appearance	Grey Powder
Packaging	20 kg PE-lined paper bag
Storage	Keep in dry conditions at a temperature of 5 °C to 35 °C. Protect from frost
Pot Life at 20 °C	approx. 30 mins
Setting time at 20 °C	4 – 6 hours
Capillary Water Absorption	≤ 0.5 kg/m2·h0.5

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

Other Information

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

Drybase® *TS-PLUS* Tanking Slurry is produced in accordance with ISO 9001 quality management systems.

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