Drybase® *TS-PLUS* 5-Bar Waterproofer

Product Description

Drybase® *TS-PLUS* 5-Bar Waterproofer is a liquid polymer that is added to Drybase TS Plus Tanking Slurry to form an enhanced waterproofing slurry. The addition of **Drybase® *TS-PLUS* 5-Bar Waterproofer** provides improved workability and adhesion and has been successfully tested up to 5 bar hydrostatic water pressure.

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

- 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 [1]

Appearance	Milky white liquid (Wet mixture = Purple)
Packaging	4 litre jerry can
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
Hydrostatic Water Pressure (EN 12390-8)	5 bar
Setting time at 20 °C	4 – 6 hours
Capillary Water Absorption	≤ 0.5 kg/m²·h0.5

Consumption [2]

Type of water impact	Recommended total application rate	Coverage for a 20kg bag + 4 litres liquid polymer	Total layer thickness based on 2 coats applied
Pressureless water	3.5 – 4.5 kg/m²	4 – 5 m²	2 mm
Water under pressure	3.5 – 5.5 kg/m²	3.5 – 5 m²	2 – 3 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* 5-Bar Waterproofer**.

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

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

Redkiln Close,
Horsham,
West Sussex,
RH13 5QL.

T +44 (0) 1403 210204
F +44 (0) 1403 217529
E info@safeguardeurope.com

www.safeguardeurope.com

Water leaks must be stopped e.g. with Drybase® Waterproof Plug before **Drybase® *TS-PLUS* 5-Bar Waterproofer** can be applied. Make localised repairs using Drybase® Universal Mortar.

Prior to the application of **Drybase® *TS-PLUS* 5-Bar Waterproofer**, 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* 5-Bar Waterproofer**. 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* 5-Bar Waterproofer**.

Mixing

Before use, shake the container of the polymer component well.

Add the 4 litres of **Drybase® *TS-PLUS* 5-Bar Waterproofer** liquid to the mixing container, and then add the 20 kg of Drybase® *TS-Plus* Tanking Slurry and mix for at least 3 minutes to a lump-free, homogeneous consistency using a high-speed mechanical mixer.

Application

Drybase® *TS-PLUS* 5-Bar Waterproofer can be applied by trowel, brush or suitable spray equipment.

Depending on the slurry consistency a maximum of 4 kg/m^2 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* 5-Bar Waterproofer 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* 5-Bar Waterproofer** 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* 5-Bar Waterproofer 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.

Redkiln Close,
Horsham,
West Sussex,
RH13 5QL.

T +44 (0) 1403 210204
F +44 (0) 1403 217529
E info@safeguardeurope.com

www.safeguardeurope.com

Backfilling

Backfilling can be carried out 3 days after completion of the Drybase® treatment. If there is a risk that the layer of Drybase® 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.

When applying a plaster or render finish, a rough cast coat is required onto the final Drybase® 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 has reached the initial set, usually between 2 – 4 hours.

If this is not practical, carefully clean the hardened Drybase® surface and apply an appropriate bonding agent (e.g. 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).

Redkiln Close,
Horsham,
West Sussex,
RH13 5QL.

T +44 (0) 1403 210204
F +44 (0) 1403 217529
E info@safeguardeurope.com

www.safeguardeurope.com