

Drybase® Elasticiser

Product Description

Drybase® Elasticiser is a liquid polymer that is added to Drybase® Tanking Slurry to form an elasticised waterproofing slurry known as **Drybase® Elasticised Tanking Slurry**. One 10 kg pack of **Drybase® Elasticiser** is used for each 25 kg bag of Drybase® Tanking Slurry.

The addition of the **Drybase® Elasticiser** polymer to Drybase® Tanking Slurry provides elasticity and enhanced crack-bridging properties to the waterproofing slurry which has been successfully tested up to 7 bar.

Areas of Application

- Substrates: concrete and masonry
- Active or passive waterproofing and protection against water and moisture
- For cracks and areas of potential cracking
- Foundations, slabs, retaining walls, etc

Benefits

- Excellent adhesion
- For concrete, masonry
- Suitable for areas of potential cracking
- Applicable by mortar gun

Properties

Owing to its composition of cement, quartz with graded grain-size distribution and selected additives, as well as the admixture of the elasticizing component, a waterproof and elastic coating is achieved. **Drybase® Elasticised Tanking Slurry** is suitable for potential cracking.

The initial and final bonding ability of **Drybase® Elasticised Tanking Slurry** is excellent, making it suitable to be applied on horizontal as well as vertical surfaces. It is durable, resistant to frost and heat after setting and at the same time vapour permeable. **Drybase® Elasticised Tanking Slurry** is an active barrier to carbon dioxide (CO₂).



Application Information

Surface Preparation

The substrate to be treated must be sound and even, openpored, roughened and its surface free from voids, large cracks or ridges. Any adhesion reducing substances like bitumen, oil, grease, remains of paint or laitance have to be removed by suitable means.

Water leaks must be stopped e.g. with Drybase® Waterproof Plug. 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.

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.

Mixing

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

Mix 25 kg of Drybase® Tanking Slurry with 10 kg of **Drybase® Elasticiser** in a clean container for at least 3 minutes to a lump-free, homogeneous consistency. Use a high speed mechanical mixer. Where site conditions require, rinse the container with clean water and add it to the mixture.

Application

Drybase® Elasticised Tanking Slurry is applied with trowel 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.

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 is textured by suitable means whilst still plastic to form a key.

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.

The **Drybase® Elasticised Tanking Slurry** coating must be fully cured before getting in contact with water. Avoid formation of water films or condensation on top of coating during 7 days after application.

Provide a relative humidity of 60 – 80% and good air exchange in enclosed areas.

Backfilling

Backfilling can be carried out 3 days after completion of the **Drybase® Elasticised Tanking Slurry** treatment. If there is a risk that the layer of **Drybase® Elasticised Tanking Slurry** will be damaged during back-filling (sharp-edged material) it must be protected by suitable means.

Plastering/Coating

Surfaces treated with **Drybase® Elasticised Tanking Slurry** which are to be coated or painted should be left to cure for at least 28 days.

Coatings on top of a **Drybase® Elasticised Tanking Slurry** treatment have to be alkali resistant. Decorative coatings applied on the passive water pressure side are recommended to be water vapour permeable. When applying paint on an elasticized polymer modified product, it must have equivalent elastic properties.

Packaging

Drybase® Tanking Slurry – 25 kg PE-lined paper bag

Drybase® Elasticiser – 10 kg PE-container

Storage

Drybase® Tanking Slurry – When stored in a dry place in unopened, undamaged original packaging, shelf life is 12 months.

Drybase® Elasticiser – Store in a frost-free place. Shelf life in unopened, undamaged original packaging is 12 months.

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.

Spray Application

Drybase® Elasticised 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® Elasticised Tanking Slurry** is applied in 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.

Do not apply at temperatures below +5 °C, or to a frozen substrate.

Consumption

Type of Water Impact	Recommended Overall Application Rate	Number of Layers
Pressureless water	2.5 – 3.5 kg/m ²	1 – 2
Water under pressure	3.5 – 5.5 kg/m ²	2 – 3

NOTE: Substrate and application conditions have to be observed. Depending on surface roughness, consumption may vary.

Properties

Technical Data		
	Dry Component	Polymer Component
Appearance	Grey powder	Milky white liquid
	Wet Mix	Hardened
Colour	Grey	Grey ¹
Density of Wet Mix [kg/l]	Approx. 1.7	
Workability at 20 °C [min.]	Approx. 30	
Setting Time at 20 °C [h]		Approx. 3 – 6
Elongation at 20 °C		Approx. 20
Tear Resistance at 20 °C		Approx. 0.8
Crack-Bridging Capacity at 20 °C		≤ 0.8
Further Data		Refer to CE marking

All data is averages of several tests under laboratory conditions. In practice, 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).

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¹ Drybase® Elasticised Tanking Slurry is not a decorative coating.

