



Triton Fastcoat 2-Part 'GREEN CONCRETE' Primer

Primer for use with Triton TWS Fastcoat on concrete and screed substrates with moisture content greater than 4%.

Description

Triton Fastcoat 2-Part Green Concrete Primer is designed for use with the Triton TWS Fastcoat liquid applied, external waterproofing system. Damp surfaces can be troublesome when being treated with any non-aqueous resin coating because of the risk of adhesion difficulties as well as problems which can arise afterwards because of moisture vapour migrating to the surface and causing blistering.

In many cases, material and time constraints force applicators to work in less-than-optimal substrate conditions, and a moisture tolerant primer is needed in order to:

- Minimize adhesion failures
- Avoid blistering due to the water vapour pressure from below
- Provide an initial seal, reducing air bubbles caused by the release of air trapped within the substrate (mostly encountered in elastic membrane treatments).
- Deal with an incompatibility of the substrate with one-component, moisture-cured polyurethane resins.

Triton Fastcoat 2-Part Green Concrete Primer is the best solution as a primer for TWS Fastcoat when waterproofing on substrates with moisture content greater than 4%. Nevertheless, this product cannot be used if the substrate is totally saturated, subject to hydrostatic pressure or is 'shiny' wet. The surface to be primed should at least look dry, even if there is moisture underneath.

Triton Fastcoat 2-Part Green Concrete Primer is a 2-component, water-based epoxy resin with hydraulic cement. Components once mixed, are totally compatible with moist substrates, and the resulting cured coating is a crystalline material with high adhesion and tensile strength. It effectively blocks residual moisture flow and prevents blistering of the polyurethane coating applied on top.

Application

This product is useful for any kind of waterproofing project, involving polyurethane coatings, such as:

- Roof, deck and terrace waterproofing
- Waterproofing treatment of tanks and other water management facilities
- Floorings in moisture-affected environments

Packaging & Coverage

Pack size is 20kg.

Application rate is 500g-1000g per sqm (20kg will cover 20-40 sqm depending on texture of the substrate).

Target application rate is around 700g per sqm (20kg will cover 28sqm at this rate)

Substrate Requirements

In order to achieve good penetration and bonding, the substrate must be:

1. Flat and levelled (Product is self-levelling).
2. Compact and cohesive (pull off test must show a minimum resistance of 1,4 N/mm²).
3. Even and regular surface.
4. Free from cracks and fissures. If there are any, they must be repaired.
5. Clean and free of ponding water, dust, loose particles, oils, organic residues or laitance.

Technical data

Information on the product before application.

	Component B		Component A	
Chemical description:	Epoxy Resin		Aqueous polyamine Solution	
Physical State:	Liquid		Liquid	
Packaging:	Metal Container 10kg		Plastic Container 10kg	
Solids content (%):	Approx. 97.7%		68.2%	
Flash Point:	>100°C		>100°C	
Colour:	White		Grey	
VOC Content:	39 g/L		30 g/L	
Density:	Temp: 25°C	Density: 1.70kg/litre	Temp: 25°C	Density: 1.60 kg/litre
A/B mixing ratio:	A=100 to B=100 by weight			
Mixture properties:	Density: 1.70g/cm ³ at 23°C			
Pot Life:	Temp (°C) 25		Pot Life (100, min) 45	
Storage:	Keep between 5° and 35°C. Frost sensitive. Component may crystallize if stored for protracted periods under certain conditions. If this occurs, it can be restored to its original condition by heating to 70-80°C and stirring thoroughly.			
Use before:	12 months after manufacturing date.			

Information on the final product

Final State:	Solid, hard film
Colour:	Grey
Hardening 22° C 50% RH:	Touch dry= 2 hours Insensitive to water= 3 hours Overcoating = 4 hours Fully Hardened= 15 days
Mechanical Properties:	Adhesion to concrete: 3.0 MPa or substrate failure.
Solid Film Density:	1.70 g/cm ³
UV Resistance:	This product shows a very slight yellowing upon UV exposure, without loss of mechanical properties.

Recommended Environmental Conditions

Substrate temperature should be between 5°C and 35°C. At higher temperatures, specific precautionary measures must be taken. Please follow manufacturer's advice. Application at very low temperature and high humidity conditions is not recommended.

Substrate Preparation

Concrete surfaces must be previously prepared by sandblasting or any other suitable means. Remove all dust and loose material before priming. Fastcoat 2-Part Green Concrete Primer can be applied to screed or cement render, as well as concrete.

Mixing and Application

Individually stir and then add the two components together and mix thoroughly until free of streaks, using a low-speed stirrer. When coarse, rough or very absorbent substrates are encountered it is permissible to add up to 10% clean water during the initial mixing process. No further additions of water should be made once the product is being used.

Apply the product immediately after mixing using a brush or medium pile roller. Apply at a rate of 700g per square metre. Ensure that the coverage is even, application at 700g per square metre should result in a 300-micron film thickness.

A 20kg pack will cover 28 sqm at 700g per square metre.

Wash application equipment and tools with clean water and detergent immediately after use.

Curing Time

Application in high humidity or very cold weather is not recommended as this delays the reaction rate and causes the initial milky film to remain white and sticky.

Reapplication

A second coat may be applied, if needed, from the moment when the first coat is dry to touch, and not later than 24 hours.

Return to Service

When used as a primer for polyurethane waterproofing on flooring jobs where appearance is important, it is recommended to ensure Triton Fastcoat 2-Part Green Concrete Primer is fully cured and dry, by measuring the moisture content on the primer film if necessary. If some of the initial water remains when moisture-curing polyurethane is applied, some blisters may develop.

Tool Cleaning

Component B can be cleaned using Fastcoat Solvent. Component A and the unreacted AB mixture can be cleansed with water.

Safety

Epoxy components are potentially sensitizing. Always follow instructions provided in the Material Safety Data Sheet. As a general rule, suitable skin and eye protection must be worn. This product is intended to be used only for the uses and in the way here described. This product is to be used only by industrial or professional users. It is not suitable for DIY use.

Environmental Precautions

Empty containers must be handled with the same precautions as if they were full. Treat empty containers as hazardous waste and transfer them to an authorised waste manager. If the containers still have some material left, do not mix with other products before considering the risk of potentially dangerous reactions.

The information provided in this Product Data Sheet is intended for general guidance only and is given in good faith based on Triton Systems' current knowledge and experience. No warranty in respect of fitness for a purpose, or any other liability whatsoever can be inferred from the information contained within this data sheet. Users should determine the suitability of the materials for their particular application and should always refer to the most recent issue of the Product Data Sheet for the product concerned. All materials are supplied in accordance with our standard trading terms and conditions.

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