



Triton Fastcoat Dry Porous Primer

Primer for use with Triton TWS Fastcoat on concrete or cement screed.

Description & Application

A one-component, moisture cure polyurethane resin for use as a sealing, priming and binding agent for concrete or cement screed which is to be waterproofed using Triton TWS Fastcoat. Dry Porous Primer controls and reduces the release of trapped air when the waterproofing topcoat is applied.

The resin cures on contact with atmospheric moisture giving a tough and flexible coating, showing high abrasion and chemical resistance. It is an excellent polyurethane primer for substrates where porosity must be sealed with a substrate-penetrating resin.

Packaging & Coverage

Supplied in 4kg cans, offering coverage of 13-26 sqm applied as a single coat.

Certifications

CE Marking EN 13813 SR-B2,0-AR0,5-IR14,7

Technical data

Information on the product before application.

Chemical description:	Moisture-cured, monocomponent polyurethane resin, in organic solvent	
Physical State:	Liquid	
Density:	0.95 g/cm ³ (25°C)	
Non volatile content (%):	60%	
Flash Point:	36°C (ASTM D 93)	
Colour:	Slightly Yellow	
VOC Content:	860 g/L	
Viscosity (Approximate Values Brookfield):	Temp (°C) 10 20 30	Viscosity (mPa.s) 300 170 110
VOC (g/L l %) class:	393 g/L 40% by weight Product Subclass: h 2 Consolidating Primers, solvent based Phase II from 01/01/2010 on: 500 g/l	
Pot Life:	2 hours (1kg, 25°C, 60% rh)	
Storage:	Keep below 35°C in a dry place, away from heat and ignition sources.	
Use before:	12 months after manufacturing date.	

Information on the final product.

Final State:	Solid Film	
Colour:	Colourless to slightly yellow	
Hardness (shore):	60D (ISO 868)	
Mechanical Properties:	Elongation (%) 2 4 5	Tensile Stress (mPa) 25 35 36
	Maximum elongation: 5% Maximum tensile stress: 36 mPa	
UV Resistance:	Triton Fastcoat Dry Porous Primer will turn to yellow when exposed to sunlight, without impairment of its mechanical properties	

Chemical Resistance

Permanent contact (0=Not recommended, 5=best result).			
	Chemical	Conditions	Result
	Water	7d, 80°C	5
	Salt Solution (saturated)	7d, 80°C	5
	Xylenes	7d, 80°C	3
	Ethyl acetate	7d, 80°C	2
	Isopropyl alcohol	7d, 80°C	2
	Sodium hydroxide (40g/L)	7d, 80°C	5
	Hydrogen peroxide (33%)	7d, 25°C	3
	Sulphuric acid (10%)	7d, 80°C	4
	Bleach	7d, 80°C	4
	Ammonia (3%)	7d, 80°C	4
	Diesel	7d, 80°C	4
	Hydrochloric acid (3%)	7d, 80°C	3

Surface contact, 24 hours at room temperature (0=Not recommended, 5=best result)			
	Chemical		Result
	Water		5
	Ammonia (3%)		5
	Isopropyl alcohol		1
	Sodium hydroxide (40 g/L)		4
	Hydrogen peroxide (33%)		5
	Sulphuric acid (10%)		5
	Xylene		4
	Hydrochloric acid (5%HCl)		5
	Ethyl acetate		1
	Bleach		4
	Diesel		4
	Engine lubricant		5
	Beer		5
	Methyl ethyl ketone		0
	Butyl acetate		2

Adhesion Strength

	Surface	Adhesion Strength (mPa)
Adhesion strength	Concrete	>4.9
Abrasion resistance	19 mg (Taber), CS-10, 1000 cycles)	
Water absorption	<1% by weight	
Thermal resistance	Stable up to 80°C	

Recommended Combinations

1. Triton Fastcoat Dry Porous Primer, 150-300 g/m² (13-26 sqm per 4kg can), one coat.
2. Triton Fastcoat, 2kg/m² (over two coats, with Geotex textile between the coats).

Support Requirements

For good adhesion the substrate must be:

1. Levelled (Triton Fastcoat Dry Porous Primer is self-levelling)
2. Cohesive/compact. Minimum 1.5 n/mm² (pull off test)
3. Uniform appearance
4. Free from cracks
5. Clean and dry, with no dust, laitance or loose material. Triton Fastcoat 2-Part Humidity Primer is available for use where the substrate may contain moisture.

Ambient Conditions

Substrate temperature should be between 0°C and 30°C. Higher temperatures may give rise to bubble formation under the coating surface, or an uneven film due to rapid solvent evaporation.

Substrate Preparation

It is important to carry out suitable preparative work when needed (sanding, sandblasting) and remove all loose material before starting application of the Triton Fastcoat Dry Porous Primer.

Mixing

Use from the can, no need to stir.

Application

Apply by roller or brush. Although not strictly necessary, it is recommended to use all the contents of the can. If not, ensure the remaining is kept tightly sealed after use. Part used containers have a limited shelf life.

We do not recommend that Triton Fastcoat Dry Porous Primer is thinned.

Typical application rates range from 13 to 26 sqm per 4kg can (equivalent to 150-300g/sqm), depending on the porosity of the substrate.

Curing Time

Curing time depends strongly on the ambient conditions. The higher the temperature and humidity are, the faster Triton Fastcoat Dry Porous Primer will cure.

The following table gives approximate values of curing for 500 g/m² wet films:

Conditions	Dry to touch (H)
35°C, 90% rh	1
25°C, 50% rh	4
35°C, 20% rh	4
7°C, 50°C rh	8

Reapplication

It is possible to apply a second coat of Triton Fastcoat Dry Porous Primer or to apply the Triton Fastcoat waterproof coating from the moment when the Primer is dry to the touch or up to 48 hours afterwards. It is important to ensure all the solvent has disappeared, in order to avoid bubble development under the sealer surface.

Tool Cleaning

Use Fastcoat Basecoat Thinner

Safety

Triton Fastcoat Dry Porous Primer contains isocyanates and flammable solvents. Always follow the instructions provided in the material safety data sheet and take the precautions described here. As a general rule, suitable ventilation must be ensured and any skin contact avoided. 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 taking the same precautions as if they were full. Containers must be considered as hazardous waste, to be transferred to an authorised waste manager. Waste containers with small amounts of uncured product can be allowed to dry before sending to treatment.

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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