

TRITON TWS-FASTCOAT



Description

A single pack liquid applied waterproofing coating, which after curing and polymerisation produces an elastomeric, polyurethane membrane. The cured membrane is seamless, incompressible and produces a totally adhered layer.

This waterproofing layer guarantees total water-tightness and withstands building movements. Being liquid applied it can deal with complex shapes and contours where joints or folds in other materials might cause a weakness. Its fast-curing rate allows its use as a base coat, reinforcing layer or topcoat, especially in low temperature applications. When combined with a textile matting, layered between two full coats, TWS-Fastcoat becomes a root barrier in its own right.

TWS-Fastcoat can be used under paving, in combination with Platon Double Drain as a protection and drainage layer, on its own where light foot traffic is expected or under a Green Roof system in combination with Platon DE-25 reservoir layer and Fleeceband intermediate layers.

Application

- Low pitch & flat roof areas with light pedestrian traffic, including balconies, terraces etc.
- Wet rooms, kitchens etc.
- Flooring with light pedestrian traffic.
- Water channels, bund linings and Green Roof systems.



Advantages

Elastic and seamless coating, weather resistant and excellent bonding. Non water emulsifiable. Permanent water contact is allowed. No reinforcement usually required except at critical points or identified cracks and joints or when a root barrier layer is required.

Technical Data

Composition :	Single pack moisture curing elastomeric resin.
Curing time :	1mm coat at 7 oC and 50% RH , touch dry in 4 hours 1mm coat at 27 oC and 60% RH, touch dry in 1 hour
Colour :	Light and Dark Grey
Coverage :	2kg per m2 over two coats.
Cured Properties :	Adhesion to concrete = 2 N/mm2 Elongation at break = 421 %
Pot Life	1kg at 20°C and at 50% RH = 4-6 hours. Containers can be re-sealed and used next day in dry conditions.
Storage	Keep at a temperature below 30°C, away from ignition sources and moisture. Keep in original sealed container. Product may be used up to 6 months after manufacture, providing the original seal is intact.

Application Information

Substrate Requirements

In order to achieve a well adhered and coherent coating, 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 1.5 N/mm²). Primers are available for various types of substrate, e.g. porous or non-porous.
3. Even and regular, free from holes or coarse texturing.
4. Free from cracks and fissures. If any are present, they must be repaired using Triton Repair Mortar and locally reinforced with Triton Fleeceband embedded between coats of TWS-Fastcoat.
5. Clean and dry, free from dust, loose particles, oils, organic residues or laitance

Recommended Environmental Conditions

Substrate temperature should be between 0°C and 30°C. At higher temperatures, specific precautionary measures must be taken. Please follow manufacturer's advice. Air temperature must be between 5°C and 30°C. High temperature and moisture conditions can reduce the pot life and lead to bubble formation under the membrane surface. The applied material is rain resistant after 1 hour and although the waterproofing performance affected is not damaged or degraded, the surface may become slightly marked.

Mixing and Application Guidelines

Mechanically stir and homogenise the product before use. Some of the contents settle during storage and must be re-dispersed. Allow several minutes to release air bubbles. Stirring should be done at low speed. Apply by roller, brush, spreader or airless equipment. It is useful to apply in 2 different coloured coats, at 1.5-2 kg/m² (total rate over two coats). It is strongly recommended to use the entire contents of the container. The product will keep for a short time in a re-sealed container but will eventually cure solid.

When incorporating the Textile matting in the first coat, to form a root barrier or reinforcement at a joint or corner: apply the first coat, lay the textile in place and gently press into the surface used a brush or roller wetted with the product.



Curing Time

Curing time is dependent on the environmental conditions. Curing rate increases as temperature and humidity rises. The following table gives a rough estimation of the curing time under diverse conditions for a 1mm coat.

Temperature (°C)	Relative humidity (%)	Dry to touch (h)
7	50	4
27	60	1

Return to Service

At usual conditions (25°C, 50% RH) the membrane achieves up to 90% of its final properties in 3 to 4 days. Final hardness is not achieved until 10 or 15 days. It is preferable to wait this time before permanent contact with water is allowed. Reapplication is possible as soon as the first coat has cured sufficiently to allow walking and working on it, and should be done within 48 hours.

Tool Cleaning

Clean tools with solvent, acetone and alcohols. Once hardened, it cannot be dissolved. It is recommended to clean equipment as soon as possible.

Packaging

Available in 5kg, 10kg and 25kg tins

Safety

Product contains isocyanates and flammable solvents. Always follow the instructions provided in the material safety data sheet and take the precautions described there. As a general rule, suitable ventilation must be ensured and all ignition sources must be avoided. 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.

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. If there is some residual product in the containers, do not mix it with other substances without checking for possible 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.

Related Products

Platon Double Drain: Drainage and protection layer for horizontal or vertical applications.

Platon DE 25: Drainage, reservoir and protection layer for Green Roof systems.

Fastcoat primer for porous surfaces.

Fastcoat primer for non-porous surfaces.

For further information please contact:

Triton Systems Ltd

Units 3 – 5 Crayford Commercial Centre, Greyhound Way, Crayford, Kent DA1 4HF

Tel: 01322 318830

Fax: 01322 524017

Email: info@tritonsystems.co.uk

www.tritonsystems.co.uk



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Chemical Description	Solvent borne single-component aromatic polyurethane
Packaging	Metal cans: 10kg & 25 kg
Physical State	Liquid - Paste
Non-volatile content	81%
Flash Point	45°C (ASTM D 93)
Available Colours	Grey RAL 7001/7011 / Black. Other colours on request.
Density	1.3 g/cm ³ (20°C)
VOC (g/l %)	VOC Content: 245 g/litre 1kg at 20°C and at 50% RH= 4-6 hours.

Containers can be re-sealed and used next day in dry conditions.

Keep at a temperature below 30°C, away from ignition sources and moisture. Keep in original sealed container. Product may be used up to 6 months after manufacture, providing the original seal is intact.

Final Appearance	Solid elastomeric membrane
Maximum elongation	421% at break.
Tensile stress	3.4 mPa (EN-ISO 527-3)
Water Vapour Permeability	$\mu > 1000$ (EN 1931)
20 g/m ² day	

Adhesion	Surface	Force (N/mm ²)	Concrete	2.0
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Polyurethane foam	1.4
UV Resistance	Products includes anti UV additives. A colour change is expected due to its aromatic polyurethane composition. This discolouration does not affect its properties.
Thermal Resistance	Stable up to 80°C
Fire Resistance	B roof = t1 (External fire exposure test).

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