

Triton TWS-Fastcoat



Description

A single pack liquid applied waterproof coating, which after curing and polymerisation produces an elastomeric, polyurethane membrane. The cured membrane is seamless, incompressible and produces a totally bonded 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 it to be used earlier and later on in the season. When combined with a textile or chopped strand glass-fibre matting, layered between two full coats, TWS-Fastcoat becomes a root barrier in its own right, useful for green roof applications.

TWS-Fastcoat can be used under paving in combination with Triton/Platon Double Drain as a protection and drainage layer, on its own where light foot traffic is expected, in conjunction with Traffic Coat where greater wear resistance is required, or under a Green Roof system in combination with Platon DE-25 reservoir layer and Geotex intermediate layers.

Applications

- Low pitch & flat roof areas with light pedestrian traffic, including balconies, terraces etc.
- Podium decks and external continuity of waterproofing detailing.
- Water channels, bund linings and Green Roof systems.
- Suitable for use on concrete, cement screed, asphalt, masonry, dry plywood or metalwork when used with the appropriate primer.

Advantages

Elastic and seamless coating, weather resistant with excellent bonding. Non water emulsifiable, meaning that permanent water contact is allowed. Reinforcement is usually used at critical points (upstands and bunds etc.), identified cracks and joints, when a root barrier layer is needed and when the highest level of performance is required.

Technical data

| | |
|-------------------|--|
| Composition: | Single pack moisture curing elastomeric resin. |
| Curing time: | 1mm coat at 7°C and 50% RH, touch dry in 4-6 hours 1mm coat at 22°C and 50% RH, touch dry in 2-4 hours |
| Colour: | Dark Grey |
| Coverage: | 2.5kg per m ² over two coats |
| Cured Properties: | Adhesion to concrete = 1.5 MPa, Tensile strength = + 6 MPa Elongation at break = 600 % |
| 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 bonded and coherent coating, the substrate must be:

1. Flat and levelled (product is self-levelling).
2. Sound and cohesive (pull off test must show a minimum resistance of 1.5 N/mm²). Primers are available for various types of substrates, e.g. porous, non-porous or where trapped moisture is present.
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 Chopped Strand Glass Fibre mat 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 5°C and 35°C. At higher temperatures, specific precautionary measures must be taken to shade the surface. Please follow manufacturer's advice. Air temperature must be between 5°C and 35°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 6 hours and although the waterproofing performance is not damaged or degraded, the surface may become slightly marked by the water.

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 to stand for several minutes to release air bubbles. Stirring should be done at low speed. Apply by roller, brush or spreader. A spiked roller is useful for helping to remove trapped air bubbles. 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 Glass Fibre(GSF) matting in the first coat, to form a root barrier or reinforcement at a joint or corner: apply the first coat, immediately lay the GSF in place and gently press into the surface using a brush or roller wetted with the product. Let the GSF soften before working it over. Ensure that the mat is fully encapsulated. The matting should not be visible through the coating layer if the correct amount of Fastcoat has been used.

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 | 4-6 |
| 22 | 50 | 2-4 |

Tool cleaning

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

Packaging

Available in 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

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

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

Dry Porous Primer: For dry screed, concrete and plywood etc.

PU Primer: For non-porous surfaces and when overcoating aged Fastcoat.

2 Part Humidity Primer: Water based epoxy primer coating for screed, concrete etc. with trapped moisture.

2 Part Green Concrete Primer: Water based epoxy/cement primer coating for fresh concrete or screed.

Traffic Coat and Emery Aggregate: Hard wearing sealer coat, used in conjunction with emery aggregate for non-slip and wear enhanced surfaces.

Triton Contact Details:

Triton Systems

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

Tel: 01322 318 830

Fax: 01322 524 017

Email: info@tritonsystems.co.uk

www.tritonsystems.co.uk