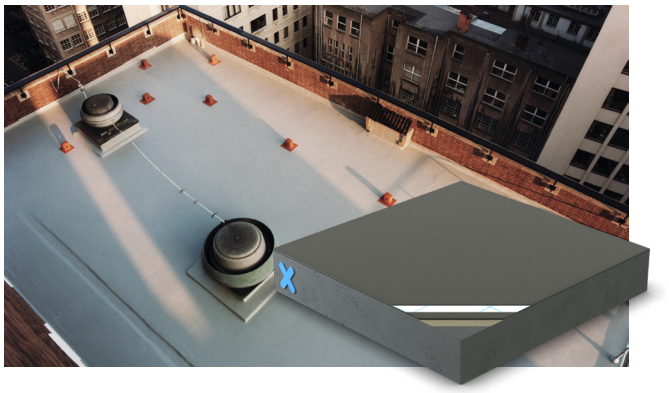
System overview

Triflex ProThan®

An odour free liquid applied waterproofing solution ideal for use in sensitive environments

In highly sensitive environments such as hospitals, food processing and pharmaceutical facilities, it is sometimes necessary to use an odour free roof waterproofing system. The BBA and ETA certified Triflex ProThan is the ideal solution as it utilises a solvent free resin technology that is odour free during application. The cold liquid applied system does not require any hot works and can also be used internally within buildings without the requirement for additional ventilation. Compatible with the majority of substrates and suitable for both new-build and refurbishment, the highly certified system is the obvious choice for highly sensitive roof waterproofing.



System highlights

Odour and solvent free

The two component polyurethane resin used in Triflex ProThan is odour free during application, making it ideal for use in highly sensitive areas, such as hospitals, food processing, pharmaceutical and other sensitive facilities. The solvent free system can also be used in internal areas without the additional need for ventilation making it ideal for plant rooms and internal bunds.

Versatility and compatibility

Whether for refurbishment or new-build, Triflex ProThan is suitable for virtually all roofing applications. The significant costs, risks and disruption associated with removal of the existing membrane are eliminated as the system is compatible with almost all roof substrates. Even the direct overlay of failed single ply and other membranes is possible. Roof waterproofing made easy.

Cold applied

There is no risk from hot works during installation as all Triflex materials are applied in a totally cold liquid form, curing to create a long term waterproofing solution.

Single process application

Installation time and costs are significantly reduced when compared to multi-coat, typically solvent based, single component polyurethane systems. The single coat application eliminates the risks of inter-layer adhesion issues.

Fully reinforced technology

The unique, highly flexible Triflex ProThan resin is used with a special high tensile strength polyester fleece to ensure that high levels of movement and cracking within the structure and between substrates can be accommodated. Proven fully reinforced waterproofing technology that stands the test of time.

Tough and durable protection

The standard Triflex ProThan system is designed for foot traffic and provides exceptional puncture resistance when compared to many alternative materials. With the option to include a heavy duty wearing layer, even the most heavily trafficked industrial roofs can be securely waterproofed and protected from damage.

Tried and tested

Triflex ProThan offers a complete waterproofing solution that will last for years to come. The system is certified and tested to the highest UK and European standards and offers proven performance.

Application areas

- Highly odour sensitive environments
- Internal waterproofing
- Refurbishment
- New build
- Overlay of existing failed waterproofing systems
- Warm roofs (all insulation types)
- Inverted roofs
- Podium / plaza decks
- Buried membrane roofs
- Green roofs
- Brown roofs
- Blue roofs
- Bunds / storage tanks / silos / plant rooms

Compatible substrates

- Felt
- Asphalt
- Bitumen
- Single ply membranes (e.g. PVC, PVC-P, EPDM, EVA, TPO, FPO, TPE, CPE, PIB, VET etc.)
- Cementitious materials (concrete, brickwork, masonry)
- Metals and coated metals
- Plastics
- Coatings (e.g. polyurethane, polyurea, polymethyl methacrylate)
- Solar reflective coatings
- Glass
- Timber

Approvals

Fully certified to the highest UK and European standards and classifications, including:

BBA certified - Certificate 13/5051 Product sheet 7
Durability: Under normal service conditions the system will provide a durable roof waterproofing with a service life in excess of 25 years

ETAG 005 certified
Highest classification in all criteria including W3 – 25 year durability

Root and rhizome resistant
FLL Certified: Root and rhizome resistant
EN 13948: Resistant to root penetration

- Fire performance:
  - BS 476-3 (EXT.F.AA)
  - EN 13501-5: Class BROOF (t1) / (t4)
  - EN 13501-1: Class E
- NHBC accepted

Manufacturer certification

- ISO 9001 Quality Management
- ISO 14001 Environmental Management
- ISO 50001 Energy Management

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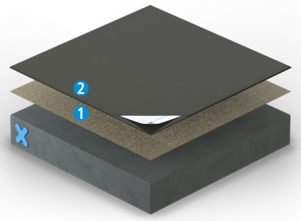
System build-up and consumptions

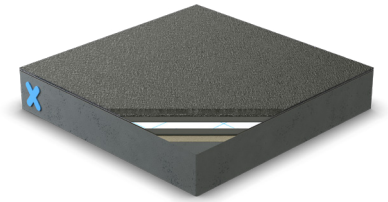


Layer	Product	Consumption [1]	Aggregate / Broadcast	Overcoat / traffic [2]
❶ Primers (if required)	Triflex Pox R 100	0.30Kg/m²	Quartz 0.3 - 0.6mm: 2.00Kg/m²	12 hours
	Triflex Primer 610	0.06L/m² min.	-	20 minutes
	Triflex Metal Primer	0.08 - 0.10L/m²	-	30 minutes (spray) 60 minutes (mohair roller / brush)
	Triflex Glass Primer	0.05L/m² approx.	-	20 minutes
❷ Reinforced waterproofing (single process)	Triflex ProThan reinforced with Triflex 110g Reinforcement	Resin: 3.00Kg/m² Reinforcement: 1.05m²/m²	-	12 hours
Optional finishes				
Heady duty finish	Triflex ProThan	1.50Kg/m² min.	Quartz 0.7 - 1.2mm: 6.00Kg/m²	12 hours
	Triflex ProThan	0.70Kg/m² min.	-	Foot traffic: 12 hours Withstand stress: 24 hours

[1] Minimum consumption assuming a smooth, even, non-absorbent substrate.
[2] The times stated are based on +20°C – the times will not be significantly extended at low temperatures.

Optional finishes

Heavy duty



Triflex ProThan resin colour

7009 Green grey

7016 Anthracite grey

Notes: There may be slight variations in shade between actual colours and those shown below. RAL colours are approximate.

Next steps

To ensure a thorough understanding of the construction, the substrate and to determine the most appropriate specification, Triflex carries out free of charge surveys, testing, investigations and analysis prior to preparing a bespoke project specification proposal. To arrange a meeting or site visit please contact Triflex Customer Services.

The advice we provide on the application of our products is based on extensive development work as well as many years of experience and is given to the best of our knowledge. However, the wide variety of requirements for a building under the most diverse conditions means that it is necessary for the Contractor to test the product for suitability in any given case. Triflex reserve the right to make alterations in keeping with technical developments or improvements.

Request a sample online at triflex.co.uk/samplerequest

Find out more at triflex.co.uk

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