

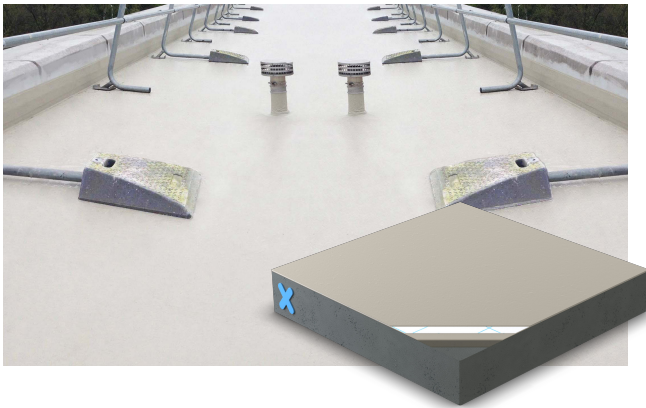


## System overview

# Triflex SmartTec

A virtually odourless single component system, for use in sensitive environments and on damp substrates

The BBA and ETA certified Triflex SmartTec is a simple, single component, virtually odourless reinforced waterproofing system for roofs and internal areas. The system can be applied to numerous substrates without a primer and with exceptional levels of vapour permeability, is particularly suitable for damp cementitious and other substrates. The winner of a German Innovation Award from the Design Council, the system can be used for everything from standard roofing and details to basement and foundation waterproofing. Being virtually odourless the system is also ideal for hospitals, nurseries, food processing and other sensitive areas.



## System highlights

### Waterproofing of damp and porous substrates

The special characteristics of the Triflex SmartTec resin enable application onto damp mineral / cementitious substrates without the need to prime first. Once installed, the highly vapour-permeable system then allows the substrate to dry out over time. The system can even be applied direct to insulation including mineral wool and both extruded and expanded polystyrene.

### Suitable for indoor and outdoor use

The fact that Triflex SmartTec is virtually odourless makes it ideal for use in odour-sensitive areas, such as schools and hospitals. Triflex SmartTec is also the quick and easy solution for a wide range of internal waterproofing applications, including boiler rooms, bunds etc. and because Triflex SmartTec is both solvent and isocyanate-free there is no need for additional protective measures during application such as respirators or additional ventilation.

### Cold applied, quickly rainproof with rapid installation

Triflex allows buildings to remain fully occupied during installation, limiting access restrictions and unnecessary disruptions to everyday activities. Being rainproof in just 60 minutes weather windows can be maximised and down time minimised. There is also no risk from hot works during installation as all Triflex materials are applied in a totally cold liquid form, curing to create a solution that lasts.

### Single process application

Installation time and costs are significantly reduced when compared to multi-coat, typically solvent based systems as the system is applied in a simple, single process, often without the requirement for a primer.

### Fully reinforced technology

The unique, highly flexible Triflex SmartTec 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.

### Waterproof down to the smallest detail

The liquid applied waterproofing has a semi-thixotropic formulation which allows the resin to be applied to both flat and vertical surfaces.

## Application areas

- Refurbishment
- New build
- Zero pitch / completely flat roofs
- Warm roofs (all insulation types)
- Inverted roofs
- Podium / plaza decks
- Buried membrane roofs
- Submerged waterproofing
- Blue roofs
- Bunds / storage tanks / silos / plant rooms
- Overlay of existing failed waterproofing systems

## 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
- Glass
- Timber

## Approvals

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



**BBA certified** - Certificate 13/5051 Product sheet 1 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



**UKTA certified**  
UKTA-0836-22/6228 of 03/11/2022



**EN 1504-2 certified**  
B4.2 (-20°C) dynamic crack bridging



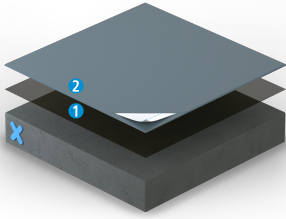
**Root and rhizome resistant**  
FLL Certified: Root and rhizome resistant  
EN 13948: Resistant to root penetration

- VOC emissions:
  - Indoor Air Comfort GOLD® - Pass
  - BREEAM International - Compliant (GN22 v2.2: BREEAM Recognised Schemes for VOC Emissions from Building Products)
  - LEED v4 - Compliant
- Fire performance:
  - BS 476-3 (EXT.FAA)
  - EN 13501-5: Class BROOF (t1) / (t2) / (t3) / (t4)
  - EN 13501-1: Class E
- NHBC accepted

### Manufacturer certification

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

## System build-up and consumptions



Layer	Product	Consumption <sup>(1)</sup>	Aggregate / Broadcast	Overcoat / traffic <sup>(2)</sup>
<b>1 Primers (if required)</b>	Triflex Primer 610	0.06L/m <sup>2</sup> min.	-	20 minutes
	Triflex Than Primer 533	0.10L/m <sup>2</sup> min.	-	20 minutes
	Triflex Bitumen Blocker	0.40Kg/m <sup>2</sup> min.	-	4 hours
	Triflex Metal Primer	0.08 - 0.10L/m <sup>2</sup>	-	30 minutes (spray) 60 minutes (mohair roller / brush)
<b>2 Reinforced waterproofing (single process)</b>	Triflex SmartTec reinforced with Triflex 110g Reinforcement	Resin: 3.00Kg/m <sup>2</sup> min. Reinforcement: 1.05m <sup>2</sup> /m <sup>2</sup>	-	8 hours

<sup>(1)</sup> Minimum consumption assuming a smooth, even, non-absorbent substrate.

<sup>(2)</sup> The times stated are based on +20°C

## Triflex SmartTec resin colours



7030 Stone grey  
Quartz 03



7043 Traffic grey 2  
Slate 03



9010 Pure white  
Sand 01

**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/samplerrequest](https://triflex.co.uk/samplerrequest)

Find out more at [triflex.co.uk](https://triflex.co.uk)