



System overview

Triflex ProTerra (BTS-P) Quartz Design

Designed to waterproof and surface walkways, balconies and terraces over occupied premises

Walkways, balconies and terraces over occupied space need to be reliably waterproofed to protect the structure and contents beneath, but also need to look good and be functional. The BBA certified Triflex ProTerra is the perfect answer, providing a combination of reliable, long term waterproofing, highly durable surfacing and attractive design. The system is ultra-fast curing and cold liquid applied, allowing installation to be completed quickly, without the use of hot works, and with minimal impact on users. Triflex Quartz Design is one of four unique surface finishes available for Triflex ProTerra and features a high quality, tough and durable anti-skid finish. With a choice of four quartz aggregate sizes providing a range of textures and over 50 standard colours it is easy to see why this versatile finish is our most popular.



System highlights

Dynamic crack bridging, fully reinforced, cold applied system

Triflex lead from the front. Featuring an ETA certified waterproofing membrane with unique resins with enhanced elastomeric properties and high tensile strength reinforcement, Triflex ProTerra delivers a totally waterproof solution that can accommodate movement and cracking within the structure. 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 solution that lasts.

Fast curing with rapid installation

Rapid curing and easy to install, Triflex systems allow buildings to remain fully occupied during installation, limiting access restrictions and unnecessary disruptions to everyday life. Installation can be carried out around all year round and the system still cures quickly at temperatures down to 0°C.

Tough and durable protection

The heavy duty wearing layer and durable surface finish used in Triflex ProTerra Quartz Design make the system robust enough for highly trafficked applications and permanent pedestrian routes. The system is unaffected by ponding water and resistant to chlorides (salts), carbon dioxide ingress, and approved de-icing and cleaning products. Protection that's built to last, with a low lifecycle cost.

Asphalt overlay

Many balconies, walkways and terraces have historically been waterproofed using asphalt which over time will fail. Triflex has more than 30 years' experience of asphalt overlay in the UK and Triflex ProTerra is the ideal solution for directly overlaying failing asphalt to trafficked areas over occupied premises. In fact, whatever the substrate, we can provide a quick, easy and reliable overlay solution.

Safety and environmental

Our solvent and isocyanate free resin technology has been assessed under BREEAM principles and can contribute to A+ ratings. Whichever quartz size used, Quartz Design provides a finished surface with a low slip potential in accordance with HSE guidelines. Select one of the larger quartz sizes in high risk, frequently trafficked areas for enhanced impact resistance, higher levels of skid resistance and maximum durability.

Versatile design

Available in four quartz aggregate sizes and in a wide range of standard and bespoke colours, Quartz Design allows you to choose the perfect texture and finish for your project.

Application areas

- External walkways, balconies, terraces, pedestrian bridges and other pedestrian trafficked areas over occupied premises
- High risk areas subject to significant levels of structural movement and cracking

Suitable for

- Refurbishment
- New build
- Overlay of existing failed waterproofing systems
- Overlay of insulated (warm) constructions

Compatible substrates

- Asphalt and polymer modified asphalt
- Concrete, concrete repair materials and screeds
- Existing membranes
- Steel
- Structural plastics
- Timber

Suitable constructions

- Cast in situ concrete
- Permanent formwork with in situ concrete
- Precast concrete planks with or without structural topping
- Precast double tee units with or without structural topping
- Steel / galvanised steel / structural plastic / timber constructions
- Insulated / warm deck build-ups

Approvals

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



BBA certified - Certificate 13/5051 Product sheet 3

Durability: Under normal service conditions the system will have a service life of at least 15 years



EN 1504-2 certified (full system - large quartz):

B3.2 (-20°C) dynamic crack bridging



ETAG 005 certified (reinforced waterproofing membrane)

25 year expected working life



Root and rhizome resistant (reinforced waterproofing membrane):

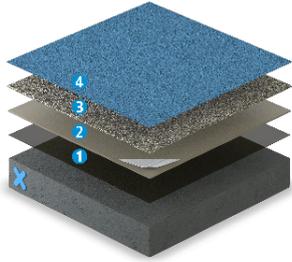
FL Certified: Root and rhizome resistant

- Fire performance:
 - EN ISO-11925-2
 - EN ISO-9239-1
 - EN 13501-1
- NHBC accepted

Manufacturer certification

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

System build-up and consumptions - Large grain quartz

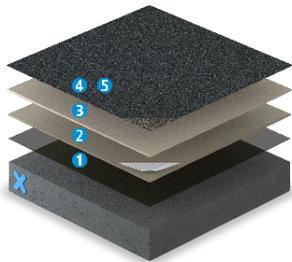


Layer	Product	Consumption ⁽¹⁾	Aggregate / Broadcast	Overcoat / traffic ⁽²⁾
① Primers	Triflex Cryl Primer 222 / 276 / 287 / 280 White	0.40Kg/m ²	-	45 minutes
② Reinforced waterproofing (single process)	Triflex ProTerra reinforced with Triflex 110g Reinforcement	Resin: 3.00Kg/m ² Reinforcement: 1.05m ² /m ²	-	1 hour
③ Waterproof wearing layer	Triflex ProFloor RS	4.00Kg/m ²	Large quartz: 6.00Kg/m ²	1 hour
④ Finish	Triflex Cryl Finish 205	0.55- 0.60Kg/m ²	Optional: Triflex Microchips	1 hour

⁽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.

System build-up and consumptions - Small grain quartz



Layer	Product	Consumption ⁽¹⁾	Aggregate / Broadcast	Overcoat / traffic ⁽²⁾
① Primers	Triflex Cryl Primer 222 / 276 / 287 / 280 White	0.40Kg/m ²	-	45 minutes
② Reinforced waterproofing (single process)	Triflex ProTerra reinforced with Triflex 110g Reinforcement	Resin: 3.00Kg/m ² Reinforcement: 1.05m ² /m ²	-	1 hour
③ Waterproof surfacing layer	Triflex ProFloor RS	4.00Kg/m ²	-	1 hour
④ Embedment layer	Triflex Cryl Finish 205	0.60Kg/m ²	Small quartz: 5.00Kg/m ²	1 hour
⑤ Finish	Triflex Cryl Finish 205	0.50Kg/m ²	Optional: Triflex Microchips	1 hour

⁽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.

Primary test data

System performance

Large grain quartz - 0.7 - 1.2mm and 0.4 - 1.2mm quartz
EN 1504-2 Products and systems for the protection and repair of concrete structures.

Anti-skid

Tests carried out wet on new indicative samples in accordance with UKSRG Guidelines (2016). Based on HSE and UKSRG guidance a surface with a PTV of 36+ is classified as having a low slip potential.

- With 0.7 - 1.2mm quartz:
 - PTV approx. 75 (Four S rubber / Slider 96)
 - PTV approx. 68 (TRRL rubber / Slider 55)
- With 0.4 - 1.2mm quartz:
 - PTV approx. 73 (Four S rubber / Slider 96)
 - PTV approx. 70 (TRRL rubber / Slider 55)
- With 0.4 - 0.8mm quartz:
 - PTV approx. 62 (Four S rubber / Slider 96)
 - PTV approx. 58 (TRRL rubber / Slider 55)
- With 0.3 - 0.6mm quartz:
 - PTV approx. 61 (Four S rubber / Slider 96)
 - PTV approx. 42 (TRRL rubber / Slider 55)

Colours and finishes

Available in a wide range of colours - refer to Triflex colour card.

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.



Colour card

Triflex ProTerra (BTS-P) Quartz Design

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

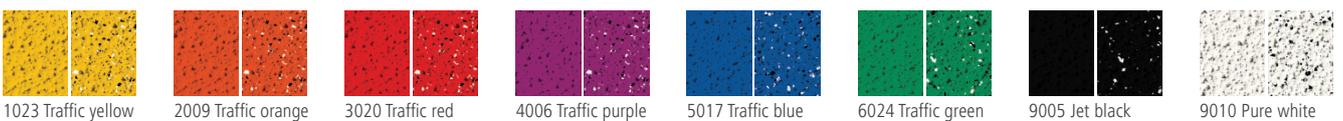
Finish colours (including optional Triflex MicroChips): Triflex colours



RAL Greys



RAL Traffic



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

Find out more at triflex.co.uk