

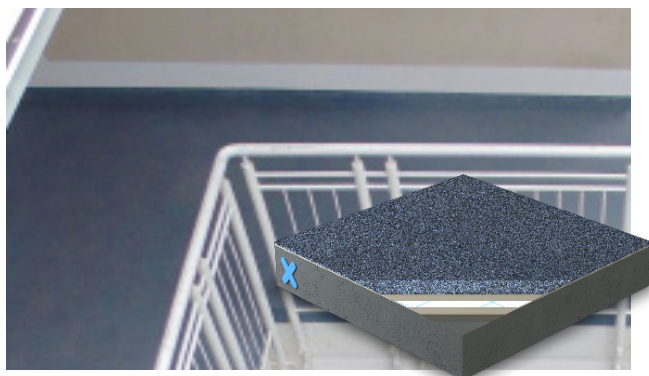


## System overview

# 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):

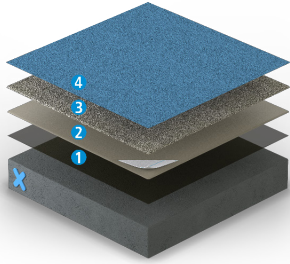
FL Certified: Root and rhizome resistant

- 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

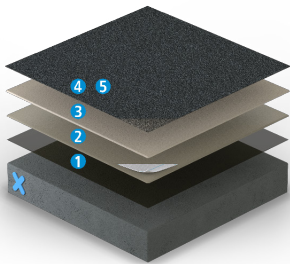


Layer	Product	Consumption <sup>(1)</sup>	Aggregate / Broadcast	Overcoat / traffic <sup>(2)</sup>
① Primers	Triflex Cryl Primer 222 / 276 / 287 / 280 White	0.40Kg/m <sup>2</sup>	-	45 minutes
② Reinforced waterproofing (single process)	Triflex ProTerra reinforced with Triflex 110g Reinforcement	Resin: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

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

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

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

<sup>(2)</sup> 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 (2011). 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

2052 Amber 01	2053 Amber 02	1090 Amber 03	1091 Amber 04	7040 Slate 01	7037 Slate 02	7043 Slate 03	
8088 Marble 01	7087 Marble 02	7088 Marble 03	7089 Marble 04	5088 Azurite 01	5089 Azurite 02	5090 Azurite 03	
9010 Sand 01	7090 Sand 02	8089 Sand 03	8090 Sand 04	7092 Granite 01	7093 Granite 02	7094 Granite 03	7095 Granite 04
2088 Agate 01	8091 Agate 02	8092 Agate 03	8054 Agate 04	5091 Opal 01	5092 Opal 02	5081 Opal 03	5094 Opal 04
8094 Garnet 01	8095 Garnet 02	8096 Garnet 03		7096 Malachite 01	7097 Malachite 02	7098 Malachite 03	7073 Malachite 04
8081 Ruby 01	3089 Ruby 02	3090 Ruby 03	3091 Ruby 04	6088 Jade 01	6089 Jade 02	6090 Jade 03	6091 Jade 04
7091 Amethyst 01	3092 Amethyst 02	4088 Amethyst 03		7035 Quartz 01	7032 Quartz 02	7030 Quartz 03	7034 Quartz 04

## RAL Greys

7016 Anthracite grey	7030 Stone grey Quartz 03	7031 Blue grey	7032 Pebble grey Quartz 02	7035 Light grey Quartz 01	7037 Dusty grey Slate 02	7043 Traffic grey 2 Slate 03	
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## RAL Traffic

1023 Traffic yellow	2009 Traffic orange	3020 Traffic red	4006 Traffic purple	5017 Traffic blue	6024 Traffic green	9005 Jet black	9010 Pure white
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Request a sample online at [triflex.co.uk/samplerrequest](http://triflex.co.uk/samplerrequest)

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