System overview

Triflex ProFloor (BFS) Quartz Design

Partially reinforced system for use on cantilevered structures and over unoccupied spaces

It is essential that cantilevered balconies, walkways and terraces are fully waterproofed and protected from water, mechanical and chemical damage to maintain the long term integrity of the structure but they also need to look good and be functional. Triflex ProFloor is the perfect solution, 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 ProFloor 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 you can create a tailored solution for your project.

System highlights

Tough and durable protection

The heavy duty wearing layer and durable surface finish used in Triflex ProFloor 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.

Dynamic crack bridging, locally reinforced waterproofing

Even high risk areas and details pose no problem, as the system incorporates an ETA certified fully reinforced waterproofing membrane locally to accommodate movement within the structure.

Cold applied system

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 around all year round and the system still cures quickly at temperatures down to 0°C.

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 ProFloor is the ideal solution for directly overlaying failing asphalt to trafficked areas. 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 large 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 cantilevered walkways, balconies, terraces, pedestrian bridges and other pedestrian trafficked areas
- External walkways, balconies, terraces, pedestrian bridges and other pedestrian trafficked areas over open or unoccupied space

Suitable for

- Refurbishment
- New build
- Overlay of existing failed waterproofing systems

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

Approvals

Certified to UK and European standards and classifications, including:

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

ETAG 005 certified (localised reinforced waterproofing membrane - Triflex ProTerra)

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

Manufacturer certification

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

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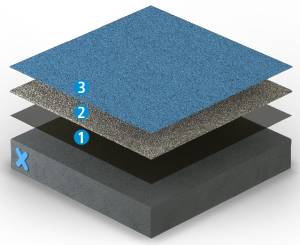
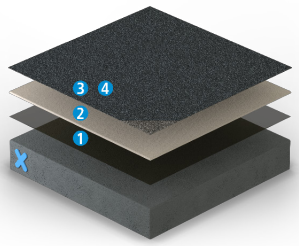
System build-up and consumptions - Large grain quartz



Layer	Product	Consumption [1]	Aggregate / Broadcast	Overcoat / traffic [2]
❶ Primers	Triflex Cryl Primer 222 / 276 / 287 / 280 White	0.40Kg/m²	-	45 minutes
❷ Waterproof wearing layer	Triflex ProFloor	4.00Kg/m²	Large quartz: 6.00Kg/m²	1 hour
❸ Finish	Triflex Cryl Finish 205	0.55- 0.60Kg/m²	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]
❶ Primers	Triflex Cryl Primer 222 / 276 / 287 / 280 White	0.40Kg/m²	-	45 minutes
❷ Waterproof surfacing layer	Triflex ProFloor	4.00Kg/m²	-	1 hour
❸ Embedment layer	Triflex Cryl Finish 205	0.60Kg/m²	Small quartz: 5.00Kg/m²	1 hour
❹ Finish	Triflex Cryl Finish 205	0.50Kg/m²	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.

Colours and finishes

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

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)

Note: Other test data, reports and certification available.

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 ProFloor (BFS)
Quartz Design

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

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
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

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

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

Find out more at triflex.co.uk

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