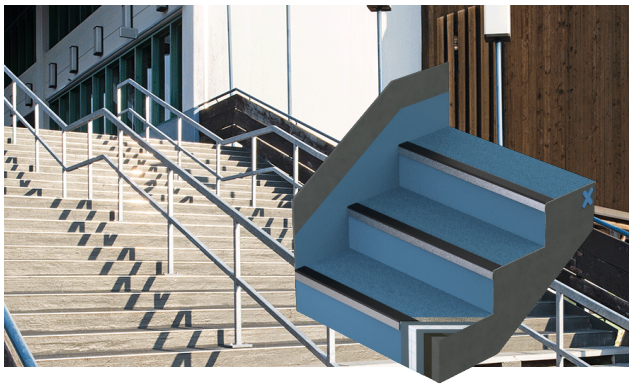
System overview

Triflex StairCoat (TSS) Quartz Design

Partially reinforced waterproofing and surfacing system for stairs above open or unoccupied space

External stairs and stairwells are vulnerable to water, mechanical and chemical damage as they are not only open to the elements but are also susceptible to added downforce pressure from foot traffic, particularly at nosings. To protect the long term integrity of the structure, and to provide a safe and secure environment for users it is essential that a robust waterproofing and surfacing system is used. Providing a combination of heavy duty, highly durable surfacing on the treads with fabricated or resin based edge nosings, Triflex StairCoat is the answer. It's 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 two unique surface finishes available for Triflex StairCoat and features a high quality, anti-skid quartz and a durable coloured finish. With a choice of four quartz aggregate sizes providing a range of textures and over 50 standard colours.



System highlights

Tough and durable protection

The demands of the stair and stairwell environment are no issue for the heavy duty wearing layer and durable surface finish used in Triflex StairCoat Quartz Design, and vulnerable nosings are protected with a proprietary or resin based edge nosing. The durable 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 pose no problem for this hard wearing solution, as the system incorporates a 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 our 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 allows buildings to remain occupied during installation, limiting access restrictions and unnecessary disruptions to everyday life. Installation can be carried out all year round and the system still cures quickly at temperatures down to 0°C.

Asphalt overlay

Many stairs and stairwells have historically been waterproofed using asphalt which over time will fail. With more than 30 years' experience, Triflex StairCoat is the ideal solution for directly overlaying failing asphalt. 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 and truly exceptional levels of skid resistance.

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 - refer to Triflex colour card.

Application areas

- External cantilevered stairs and stairwells
- External stairs and stairwells over open or unoccupied space

Compatible substrates

- Concrete, concrete repair materials and screeds
- Asphalt and polymer modified asphalt
- 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

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

CE
ETA

EN 1504-2 certified (full system - large grain quartz):
B4.2 (-20°C) dynamic crack bridging
ETAG 005 certified (reinforced waterproofing membrane)
25 year expected working life

- 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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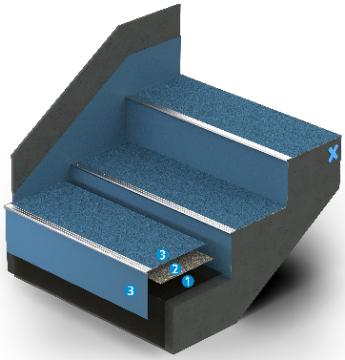
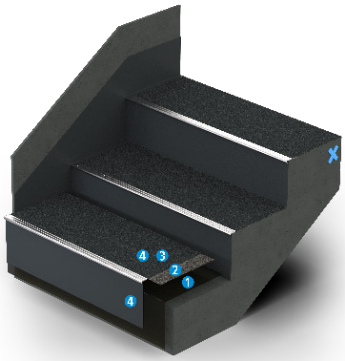
System build-up and consumptions - Large grain quartz



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

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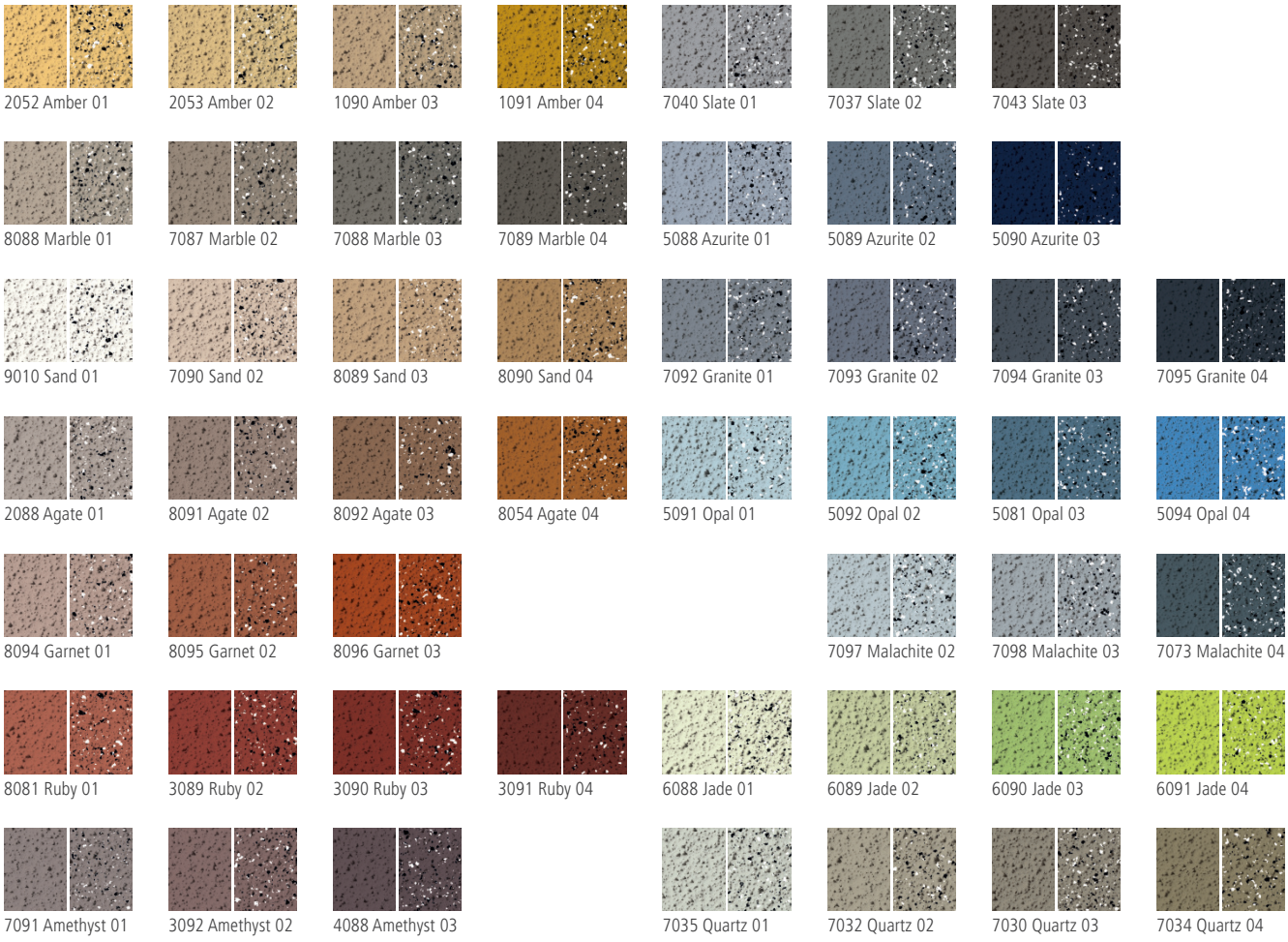
Colour card

Triflex StairCoat (TSS)
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

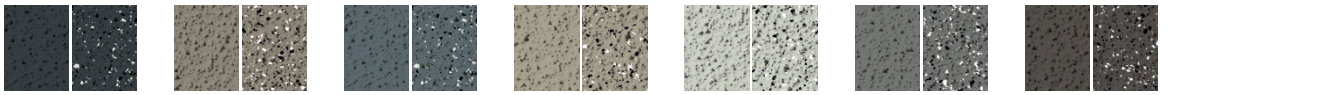
2088 Agate 01 | 8091 Agate 02 | 8092 Agate 03 | 8054 Agate 04 | 5091 Opal 01 | 5092 Opal 02 | 5081 Opal 03 | 5094 Opal 04

8094 Garnet 01 | 8095 Garnet 02 | 8096 Garnet 03 | 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

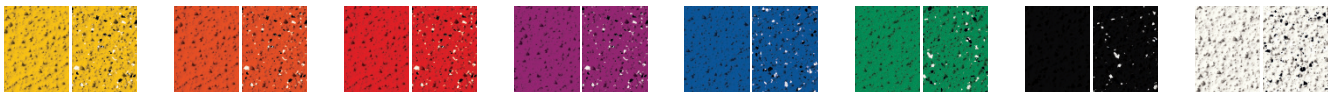
7091 Amethyst 01 | 3092 Amethyst 02 | 4088 Amethyst 03 | 7035 Quartz 01 | 7032 Quartz 02 | 7030 Quartz 03 | 7034 Quartz 04

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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