

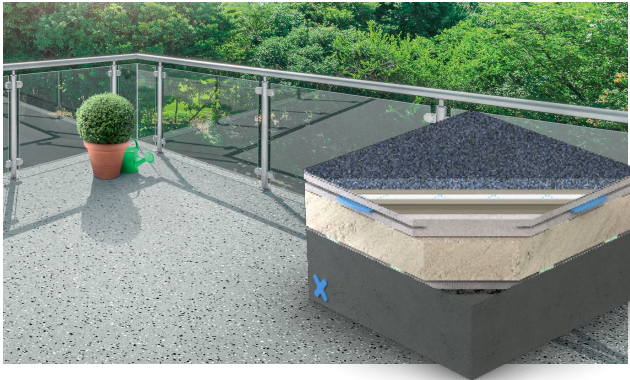


## System overview

# Triflex ProTerra Insulated (BIS)

Insulated build-up for trafficked walkways, balconies and terraces

Driven by the increasing demands of Part L of the Building Regulations to reduce heat loss and improve energy efficiency in areas that are over occupied spaces, it is sometimes necessary to choose a balcony, walkway or terrace waterproofing and surfacing system that not only provides reliable protection and attractive design but also offers increased thermal performance. Triflex ProTerra Insulated is the ideal solution, featuring high quality warm roof insulation, an impact resistant topping and a durable and decorative waterproofing and surfacing layer. All elements of the system are 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 ProTerra Insulated is available in four unique surface finishes allowing you to completely tailor the colour, texture and finish of your project.



## System highlights

### One stop shop

With Triflex you get the complete, one stop solution. Featuring a high performance warm roof insulation, a thin section, lightweight, impact and water resistant topping and the market leading Triflex ProTerra waterproofing and surfacing system. Threshold height requirements are minimised as the build-up above the insulation is much thinner than traditional construction.

### Maximum thermal performance

Our proven, high quality system offers a cost effective solution that ensures the requirements of Part L of the Building Regulations are exceeded. Maximising insulation values, reducing heat loss and increasing energy efficiency is simple to achieve.

### 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.

### Tough and durable protection

The demands of the walkway, balcony and terrace environment are no issue for Triflex ProTerra Insulated. 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.

### Safety and environmental

Our solvent and isocyanate free resin technology has been assessed under BREEAM principles and can contribute to A+ ratings.

### Versatile design

Available in four surface finishes, choose the perfect colour, texture and finish for your project - refer to Triflex colour card.

## Application areas

- External walkways, balconies, terraces, pedestrian bridges and other pedestrian trafficked areas over occupied premises

## 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

### Approvals (Triflex ProTerra waterproofing and surfacing system)

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):

FLL Certified: Root and rhizome resistant

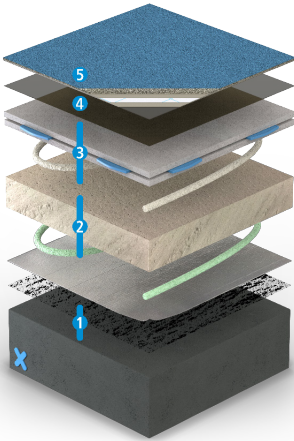
- Fire performance:
  - EN ISO-11925-2
  - EN ISO-9239-1
  - EN 13501-1

- NHBC accepted

### Manufacturer certification

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

## System build-up and consumptions



Layer	Product	Consumption <sup>(1)</sup>	Aggregate / Broadcast	Overcoat / traffic <sup>(2)</sup>
1 Vapour control layer (if required)	Triflex Spray FastPrime with Triflex SA Vapour Control Layer	Primer: 0.08Kg/m <sup>2</sup> Vapour Control Layer: 1.08m <sup>2</sup> /m <sup>2</sup>	-	Primer: 20 minutes Vapour Control Layer: Immediate
2 Insulation	Triflex Insulation Adhesive with Triflex Insulation	Adhesive: 0.150 - 0.225L/m <sup>2</sup> Insulation: 1.00m <sup>2</sup> /m <sup>2</sup>	-	Immediate
3 Impact resistant substrate	Teroson TK395 Adhesive with AMROC Board	Adhesive: 0.04L/m <sup>2</sup> AMROC Board: 1.00m <sup>2</sup> /m <sup>2</sup>	-	Immediate
4 Primer	Triflex Ceryl Primer 276	0.60Kg/m <sup>2</sup>	-	45 minutes
5 Waterproofing and surfacing system	Available in four surface finishes - refer to relevant Triflex ProTerra system overview: <ul style="list-style-type: none"> <li>• Triflex ProTerra Quartz Design</li> <li>• Triflex ProTerra Colour Design</li> <li>• Triflex ProTerra Chips Design</li> <li>• Triflex ProTerra Stone Design</li> </ul>			

<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

### 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.

### Quartz Design

- 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 Insulated (BIS) Quarz 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)

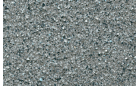


Colour card

# Triflex ProTerra Insulated (BIS) Colour Design

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

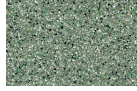
## Optional finish colours: Coloured surface dressing



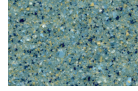
A719 Grey



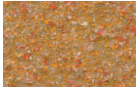
A728 Anthracite  
Grey



A722 Green Grey



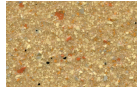
A721 Blue Grey



A724 Red Orange



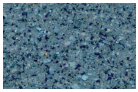
A729 Stone Red



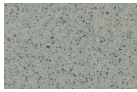
A727 Creme Beige



A730 White



A720 Blue



A731 Light Grey

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

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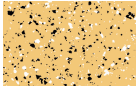
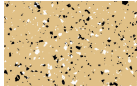
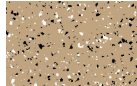
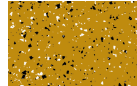
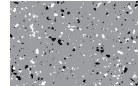
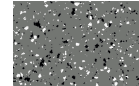
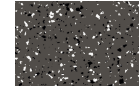
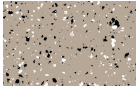
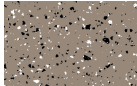
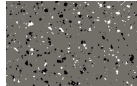
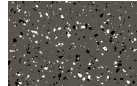
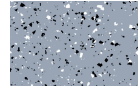
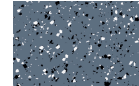
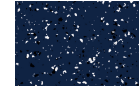

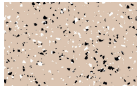
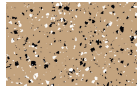
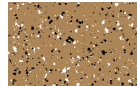
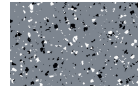
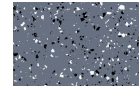
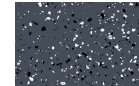

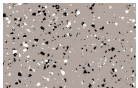
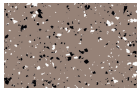
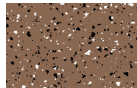
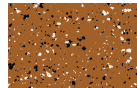
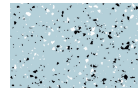
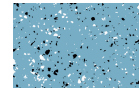
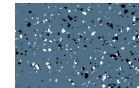
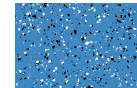
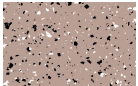
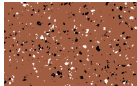
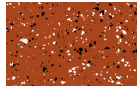

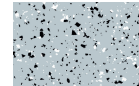
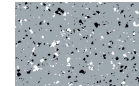
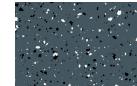
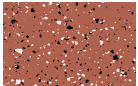
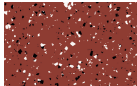
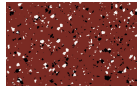
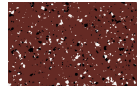
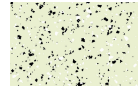
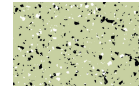
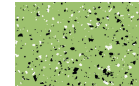
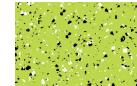
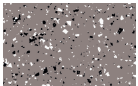
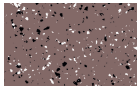
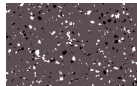
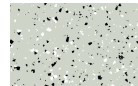
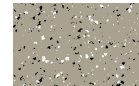
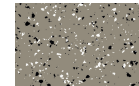
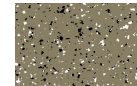


Colour card

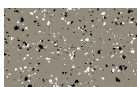
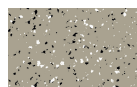
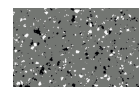
# Triflex ProTerra Insulated (BIS) Chips Design

**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.





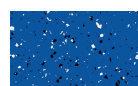
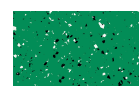


## Optional finish colours: Triflex colours

								
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	

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



Colour card

# Triflex ProTerra Insulated (BIS) Stone Design

**Notes:** There may be slight variations in shade between actual colours and those shown below, texture is indicative only.

## Stone Design finish colours

### Italian marble



S100 | Giallo Sienna



S200 | Breccia Pernice



S300 | Rosso Verona



S800 | Marrone



S700 | Bardiglio



S900 | Ice Blue

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