

## System overview

# Triflex ProDrain

## Specialist vented solution for saturated and contaminated substrates

When a balcony, walkway or terrace has a saturated or contaminated substrate or features a failing buried membrane, it is not possible to successfully overlay these areas with a new waterproofing and surfacing system. In these instances, it is usually necessary to completely remove the existing substrate before refurbishment can begin, which is not only time consuming and costly but also causes disruption. This doesn't always need to be the case, as we have developed a specialist solution which can directly overlay these areas without removal of the existing substrate. Triflex ProDrain offers a safe, clean solution featuring a self-supporting isolating and venting sheet that enables the subsequent Triflex ProTerra waterproofing and surfacing system to be applied over it. It 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. Available in four unique surface finishes, the completed solution also looks good and allows you to completely tailor the colour, texture and finish of your project.



### System highlights

#### Ultimate refurbishment solution

With Triflex ProDrain there is no need for the time consuming and costly removal of the existing substrate, even when it is saturated, contaminated or cracked. The installation of the unique self-supporting decoupling membrane enables the subsequent Triflex ProTerra waterproofing and surfacing system to be applied directly on top, and the thin layer build-up has minimal impact on thresholds. A safe, effective refurbishment solution that lasts.

#### Fast curing and rapid installation

Traditional refurbishments can take weeks to complete and are susceptible to further water ingress when the existing substrate is removed. Fast curing and easy to install, the entire solution can be installed in just a few days, allowing building to remain occupied during installation, limiting access restrictions and unnecessary disruptions to everyday life.

#### 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.

#### Tough and durable protection

The demands of the walkway, balcony and terrace environment are no issue for TriflexProDrain. 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 with saturated or contaminated substrates
- External walkways, balconies, terraces, pedestrian bridges and other pedestrian trafficked areas with buried membranes

### Compatible substrates

- Cementitious substrates

### 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

#### 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

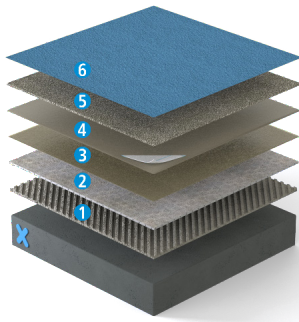
- Fire performance:
  - EN ISO-11925-2
  - EN ISO-9239-1
  - EN 13501-1

- 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 Primer (if required)	Triflex ProDrain Primer	0.15l/m <sup>2</sup>	-	1 hour
② Decoupling membrane	Triflex ProDrain Fix+ DC-MAT Decoupling Membrane	Adhesive: 4.00Kg/m <sup>2</sup> minimum Membrane: 1.00m <sup>2</sup> /m <sup>2</sup>	-	1 hour
③ Load distribution layer	Triflex Ceryl Primer 276	2x 0.55Kg/m <sup>2</sup> per application	-	45 minutes per application
④ Waterproofing ⑤ and surfacing ⑥ 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

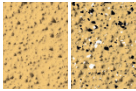
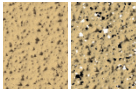
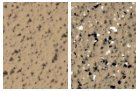
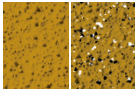
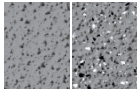
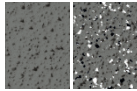
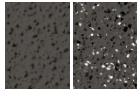
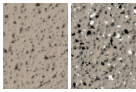
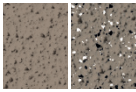
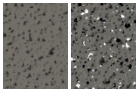
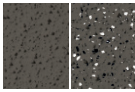
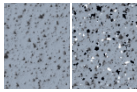
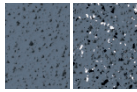
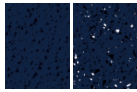
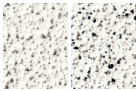
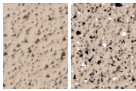
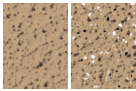
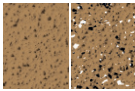
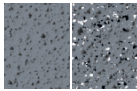
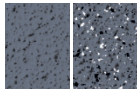
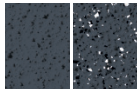
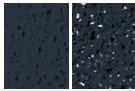
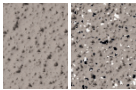
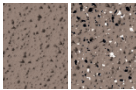
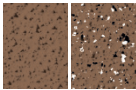
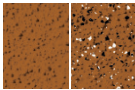
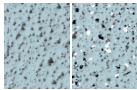
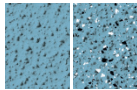
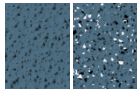
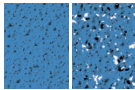
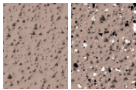
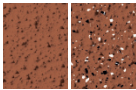
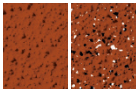
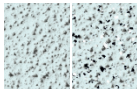
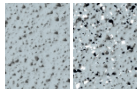
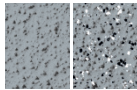
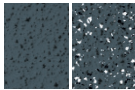
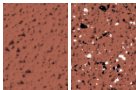
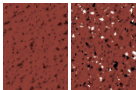
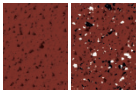
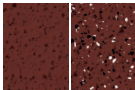
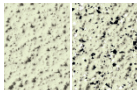
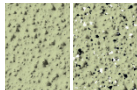
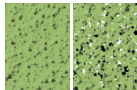
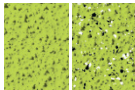
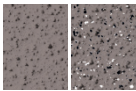
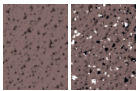
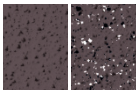
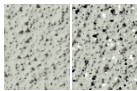
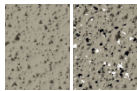
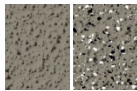
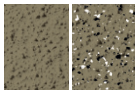
# Triflex ProDrain Quartz Design

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

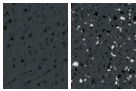
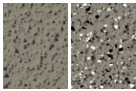
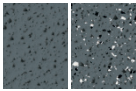
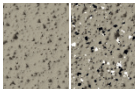
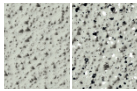
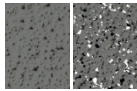
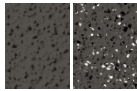
RAL colours are approximate.

Special colours can be produced to order.

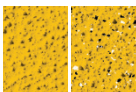
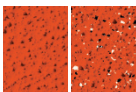
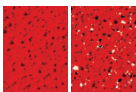
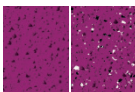
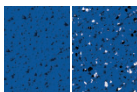
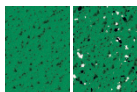
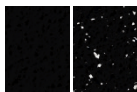
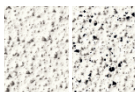
## Finish colours (including optional Triflex MicroChips): Triflex colours

							
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	

## 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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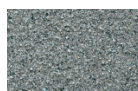


Colour card

# Triflex ProDrain Colour Design

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

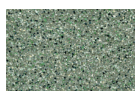
## Optional finish colours: Coloured surface dressing



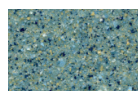
A719 Grey



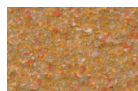
A728 Anthracite  
Grey



A722 Green Grey



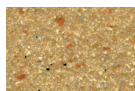
A721 Blue Grey



A724 Red Orange



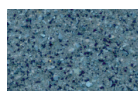
A729 Stone Red



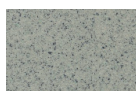
A727 Creme Beige



A730 White



A720 Blue



A731 Light Grey

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Colour card

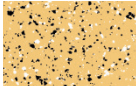
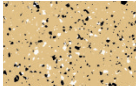
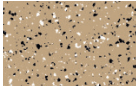
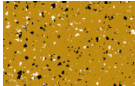
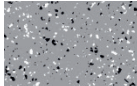
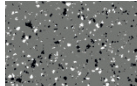
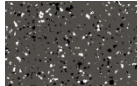
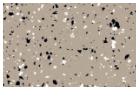
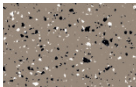
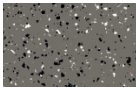
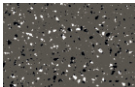
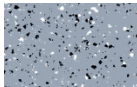
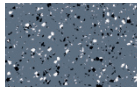
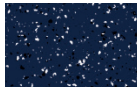
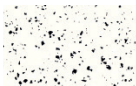
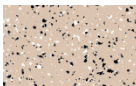
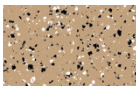
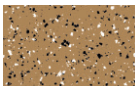
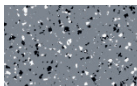
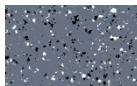


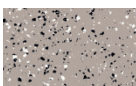
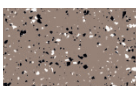
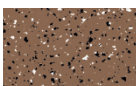
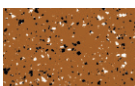
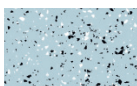
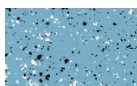
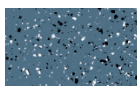
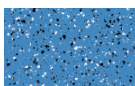
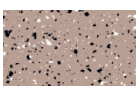
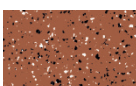
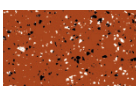
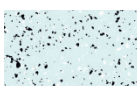
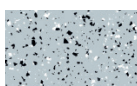
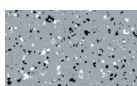
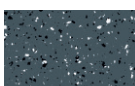
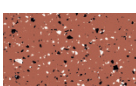
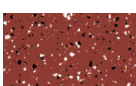
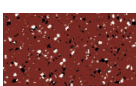
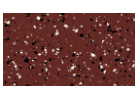
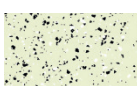
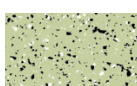
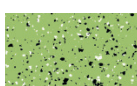
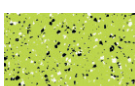
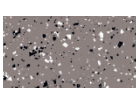
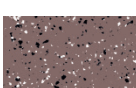
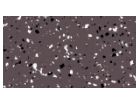
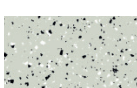
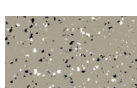
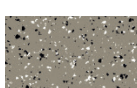
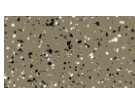
# Triflex ProDrain Chips Design

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

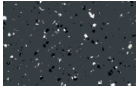
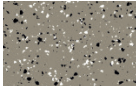
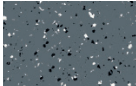
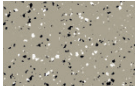
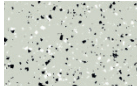
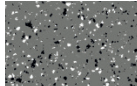
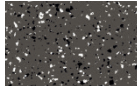
RAL colours are approximate.

Special colours can be produced to order.


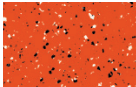
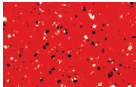
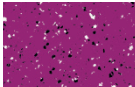
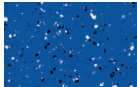
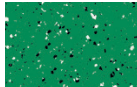
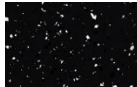

## Optional finish colours: Triflex colours

							
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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