



System overview

Triflex ProPark®

Fully reinforced system for external decks and ramps above occupied premises and those at high risk of cracking

Exposed, rooftop car park decks and ramps directly above occupied spaces are essentially highly trafficked roofs and it is therefore vital that they are fully waterproofed to protect the structure and contents below. For new build and other structures, particularly those with significant levels of structural movement and cracking the priority may be more to protect the structure from the damaging ingress of chlorides and other environmental influences. Whatever the requirement, if left untreated or with insufficient protection, water ingress and other corrosive elements can result in damage to the building fabric and contents. Engineered to offer long term protection, even in the toughest of circumstances, the BBA and EN 1504-2 certified Triflex ProPark not only prolongs building life but also answers all of your waterproofing, surfacing, safety, aesthetic and design needs. The heavy duty, dynamic crack bridging system is certified to the highest standards, and with a proven track record in the UK and across Europe, ensures long term security and peace of mind.



System highlights

Dynamic crack bridging, fully reinforced, cold applied system

Triflex are the car park waterproofing and surfacing experts. Featuring unique resins with enhanced elastomeric properties in combination with high tensile strength reinforcement, we deliver a totally waterproof solution designed specifically to accommodate the movement and cracking within parking structures. There is no risk from hot works during application as all of our materials are installed in a completely cold applied form, quickly curing to create a solution that lasts.

Tough and durable protection

The demands of even the highest trafficked, highest space change rate car parks are no issue for the highly traffic, impact and load resistant wearing layer and durable surface finish used in the Triflex ProPark system. The system is unaffected by ponding water and is resistant to chlorides (road salts), carbon dioxide ingress, petrol, diesel, brake fluid, engine oil, battery acid, and de-icing and cleaning products. Protection that's built to last, with a low lifecycle cost.

Asphalt overlay

Historically many car parks have been protected with traditional asphalt coverings which over time will fail. With more than 30 years' experience of directly overlaying in excess of 1.5 million m² of failed asphalt car parks, Triflex are the industry experts and Triflex ProPark is the industry leading solution for asphalt car parks over occupied premises. In fact, whatever the substrate, Triflex can provide an overlay solution that performs and lasts.

Tried and tested

Triflex ProPark offers a complete waterproofing and surfacing solution for refurbishment and new-build projects that will last for years to come. The Triflex ProPark system is not only certified and tested to the highest UK and European standards, but has an outstanding track record based on the use of our reinforced waterproofing technology for car parks for more than 30 years in projects across the globe.

Rapid curing

Exceptionally fast curing, Triflex enables car parks to remain open during installation, limiting access restrictions and unnecessary disruptions. Installation can be carried out all year round and the system still cures quickly at temperatures down to 0°C. Ramps and critical areas can be completed overnight and opened the next morning.

Application areas

- External car park decks and ramps over occupied spaces
- High risk car park decks and ramps subject to significant levels of structural movement and cracking
- New build car park decks and ramps featuring pre-cast construction

Suitable for

- Refurbishment
- New build
- Overlay of existing failed waterproofing systems
- Overlay of insulated (warm) constructions

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
- Temporary / demountable (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 2

Durability: Under normal service conditions the system will have a service life of at least 15 years



EN 1504-2 certified (full system)

B4.2 (-20°C) dynamic crack bridging



ETAG 005 certified (Triflex ProTerra® reinforced waterproofing membrane) 25 year expected working life. **Note:** Triflex ProPark® is a rebranded version of Triflex ProTerra®



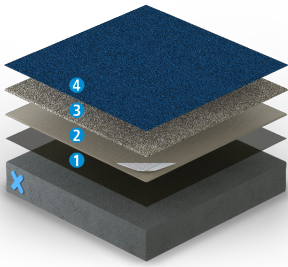
Root and rhizome resistant (reinforced waterproofing membrane): FLL Certified: Root and rhizome resistant

- Fire performance:
 - EN 13501-1

Manufacturer certification

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

System build-up and consumptions - Quartz

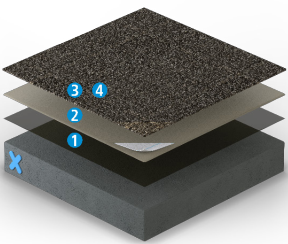


Layer	Product	Consumption ⁽¹⁾	Aggregate / Broadcast	Overcoat / traffic ⁽²⁾
1 Primers	Triflex Cryl Primer 222 / 276 / 287 / 280 White	0.40Kg/m ²	-	45 minutes
2 Reinforced waterproofing (single process)	Triflex ProPark reinforced with Triflex 110g Reinforcement	Resin: 3.00Kg/m ² Reinforcement: 1.05m ² /m ²	-	1 hour
3 Waterproof wearing layer	Decks: Triflex DeckFloor RS Ramps: Triflex DeckFloor RS Thixo	4.00Kg/m ²	Quartz: 6.00Kg/m ² approx.	1 hour
4 Finish	Triflex Cryl Finish 209	0.60Kg/m ²	-	Foot traffic: 1 hour Vehicle traffic: 2 hours

⁽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 - Emery



Layer	Product	Consumption ⁽¹⁾	Aggregate / Broadcast	Overcoat / traffic ⁽²⁾
1 Primers	Triflex Cryl Primer 222 / 276 / 287 / 280 White	0.40Kg/m ²	-	45 minutes
2 Reinforced waterproofing (single process)	Triflex ProPark reinforced with Triflex 110g Reinforcement	Resin: 3.00Kg/m ² Reinforcement: 1.05m ² /m ²	-	1 hour
3 Waterproof wearing layer	Decks: Triflex DeckFloor RS (Black - 9005) Ramps: Triflex DeckFloor RS Thixo (Black - 9005)	4.00Kg/m ²	Emery: 7.00Kg/m ² approx.	1 hour
4 Finish	Triflex Cryl Finish 202	0.80Kg/m ²	-	Foot traffic: 1 hour Vehicle traffic: 2 hours

⁽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

EN 1504-2 Products and systems for the protection and repair of concrete structures.

0770	
Triflex GmbH & Co. KG Karlstraße 59, 32 423 Minden Germany	
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10/2351/01/02	
EN 1504-2: ZA.1f and ZA.1g	
Car park waterproofing and surfacing system Triflex ProPark variation 1 and 2	
Abrasion resistance	≤ 3000 mg
Permeability to CO ₂	Sd > 50
Water vapour permeability	Class II
Permeability to water	< 0,1 kg/(m ² ·√h)
Adhesion strength by pull off test	≥ 1,5 N/mm ²
Resistance to thermal shock / thermal compatibility	≥ 1,5 N/mm ²
Resistance to severe chemical attack	Class I, 3 d without pressure
Crack bridging ability	B 4.2 (-20°C)
Reaction to fire after application	Bfl-s1
Skid resistance	Class III
Impact resistance	Class I

Anti-skid

Tests carried out wet on new indicative samples in accordance with UKSRG Guidelines (2011):

- With 0.7 - 1.2mm quartz:
 - PTV approx. 75 (Four S rubber / Slider 96)
 - PTV approx. 68 (TRRL rubber / Slider 55)
- With 1.0 - 3.0mm emery:
 - PTV approx. 80 (Four S rubber / Slider 96)
 - PTV approx. 77 (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

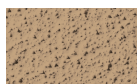
Triflex ProPark®

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

Triflex ProPark finish colours

						
7016 Anthracite grey	7030 Stone grey	7031 Blue grey	7032 Pebble grey	7035 Light grey	7037 Dusty grey	7043 Traffic grey
						
1023 Traffic yellow	2009 Traffic orange	3020 Traffic red	4006 Traffic purple	5017 Traffic blue	6024 Traffic green	9005 Jet black

Triflex ProPark finish colours: Additional colours (available on request)

							
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	6096 Jade 04
							
7091 Amethyst 01	3092 Amethyst 02	4088 Amethyst 03		7035 Quartz 01	7032 Quartz 02	7030 Quartz 03	7034 Quartz 04

Additional colours

Other and special colours can be produced to order.

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

Find out more at triflex.co.uk