

# Triflex

Delivering solutions together.

Waterproofing, surfacing, coating and protection

## Car park solutions



MULTI-STORY | UNDERGROUND | SURFACE CAR PARKS

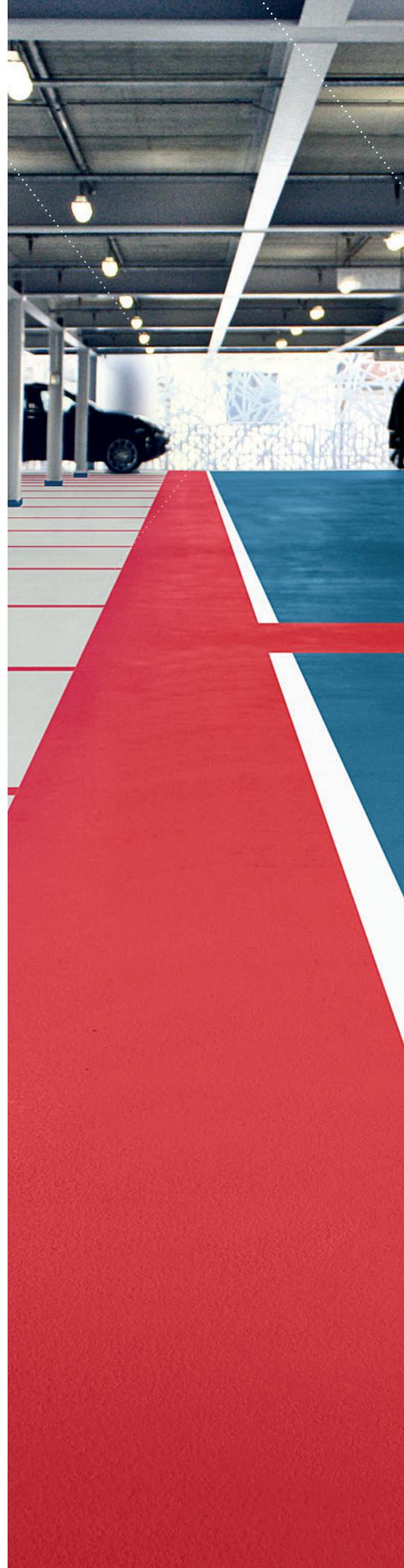
# MULTIPLE CHALLENGES, ONE SOLUTION

Triflex understand that the appearance, functionality and safety of your car park is important in creating the vital first impression of your business and brand. As specialists in cold liquid applied waterproofing, surfacing and protection solutions, Triflex ensure that the aesthetic enhancement of your car park is not solely cosmetic. All of our systems are designed to offer long term protection, prolong building life and add value and safety to the structure.



## Advantages at a glance

- + Long term structural protection
- + Aesthetic enhancement
- + Safety and security





## LONG TERM PROTECTION FOR STRUCTURAL INTEGRITY

As unique structures with maximum spans and minimal support, car parks are subjected to high loads from vehicles and are exposed to weathering, wear, mechanical damage and chemical attack primarily from chlorides and carbonation. Over time these influences can lead to structural damage and failures. With a legal duty of care to not endanger users, it is the responsibility of the owner / operator to ensure the integrity and safety of the structure at all times.

Triflex industry leading systems have been installed in some of the busiest car parks in the UK and Europe. Our experience and knowledge of car park construction, coupled with our technologies developed over almost 40 years, enable Triflex to offer unsurpassed levels of performance and provide long term structural protection for your peace of mind.

## CREATIVE DESIGN FOR AESTHETIC ENHANCEMENT

Triflex understand that the calibre of your business and the way you care about your customers can be judged by the quality and appearance of your car park.

With an exceptional colour range, design opportunities become almost unlimited allowing the creation of an aesthetically pleasing and welcoming environment which will leave a positive first impression on the user. Triflex high quality, durable waterproofing, surfacing and protection systems offer a functional and creative design to improve and enhance the aesthetics of your car park.

## CONSIDERATION FOR SAFETY AND SECURITY

Inadequate skid and slip resistance, poor markings and unclear directional signage can lead to accidents. A clearly marked car park with a heavy duty, anti-skid surface is crucial to ensuring the safety and security of the structure and its users.

Through a combination of high quality materials, design assistance, colour range and specialist materials, Triflex can help create a safe, secure and efficient car parking environment. Our heavy duty, waterproofing, surfacing and protection systems maintain their appearance and skid resistance over time helping to minimise accidents and improve safety and navigation for all users.

# DELIVERING SOLUTIONS TOGETHER...



## CONSULTATION

Triflex listen to and work with our clients providing the highest levels of technical service and support right through to the delivery of the finished project. Our full package of completely **FREE** of charge services offer total peace of mind.

## SURVEY

Our aim at Triflex is to make life that little bit easier for you. The Triflex Technical Team will carry out a **FREE** of charge, no obligation condition survey, evaluating the works and determining any requirements for further investigations and testing.

## TESTING

Where required, the Triflex Technical Team will carry out **FREE** of charge core, adhesion, cohesive strength, and other testing in order to establish the condition and suitability of the substrate for overlay and to assist with the selection of a Triflex solution.

As Europe's leading specialist manufacturer of cold liquid applied waterproofing, surfacing and protection systems and a pioneer in advanced resin technologies, Triflex have a solution to solve every problem.

For more than 40 years Triflex has been researching and developing solutions designed to protect, enhance and repair the built environment. With an impressive track record across the globe and dedicated technical support, we work closely with our clients - [delivering solutions together...](#)



## DESIGN

We will evaluate all relevant aspects of your project and produce a complete bespoke specification detailing the most suitable, tailored system solutions and their interfaces with each unique construction.

## INSTALLATION

Triflex only work with authorised contractors, trained to install our systems. Our Technical Team also provide on-site support and quality control to ensure works are delivered to the highest standard.

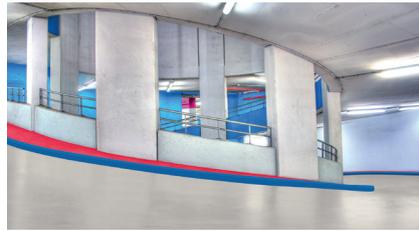
## WARRANTY

Triflex solutions are underpinned by meaningful warranties backed by insurance, demonstrating the total confidence we have in our systems.

# MORE THAN JUST A CAR PARK

Triflex is recognised throughout the world for its impeccable track record and the level of service we provide. Our cold liquid applied resin systems offer many benefits, beyond their exceptionally fast curing times and meaningful warranties. For each refurbishment, new build or repair project, our dedicated Technical Team are on hand to provide on and off-site support and advice through to completion. With Triflex, our clients receive a complete service and long term security.





## VERSATILE SOLUTIONS FOR CAR PARK TRANSFORMATION

Triflex systems are totally cold applied and with the majority being exceptionally fast curing ensure the minimum of disruption to the owner, operator and users. Our resin technologies are designed for use on all car park constructions and are compatible with virtually all substrates, including asphalt, concrete and steel and have been proven in the most challenging of trafficked environments.

We offer a variety of sophisticated solutions to deal with the widest range of applications.

- External and internal decks
- Decks above occupied premises
- Underground decks
- Internal and external stairwells
- Ramps
- HGV service decks
- Markings
- Surface car parks

## CREATIVE SOLUTIONS FOR ALL CAR PARK PROJECTS

The Triflex creative car park concept gives you the opportunity to combine our range of durable, long term waterproofing, surfacing and protection systems with an almost unlimited choice of colour and design, to create an aesthetically pleasing and safe environment for all users.

**Triflex colour and design options can be incorporated for:**

- Corporate colour / brand matching
- Parking bays, walkways, driving lanes and markings
- Parent and toddler, disabled and electric charging bays etc.

## INDEPENDENT CERTIFICATION FOR TOTAL CONFIDENCE

With more than 10% of our employees working in research and development, Triflex are at the forefront of car park resin and system technology. This investment in research and development is backed up by the highest levels of independent testing, including:

- BBA certification
- EN 1504-2 certification
- ETAG 005 certification
- BASt - Federal Highway Research Institute
- Fire testing

## EXTERNAL DECKS AND RAMPS

For in situ structures and refurbishment of pre-cast structures

**Triflex DeckFloor**

For high risk structures / at a very high risk of cracking

**Triflex ProPark**

## INTERNAL DECKS AND RAMPS

For all concrete structures

**Triflex DeckCoat**

**Triflex DeckDefence**

For all concrete and asphalt covered decks

**Triflex DeckFloor**

## SURFACE CAR PARKS

Markings and coating

**Line markings**

**Driving lane**

**Walkways**

**Parking bays**

Markings and coating

**Pot holes**

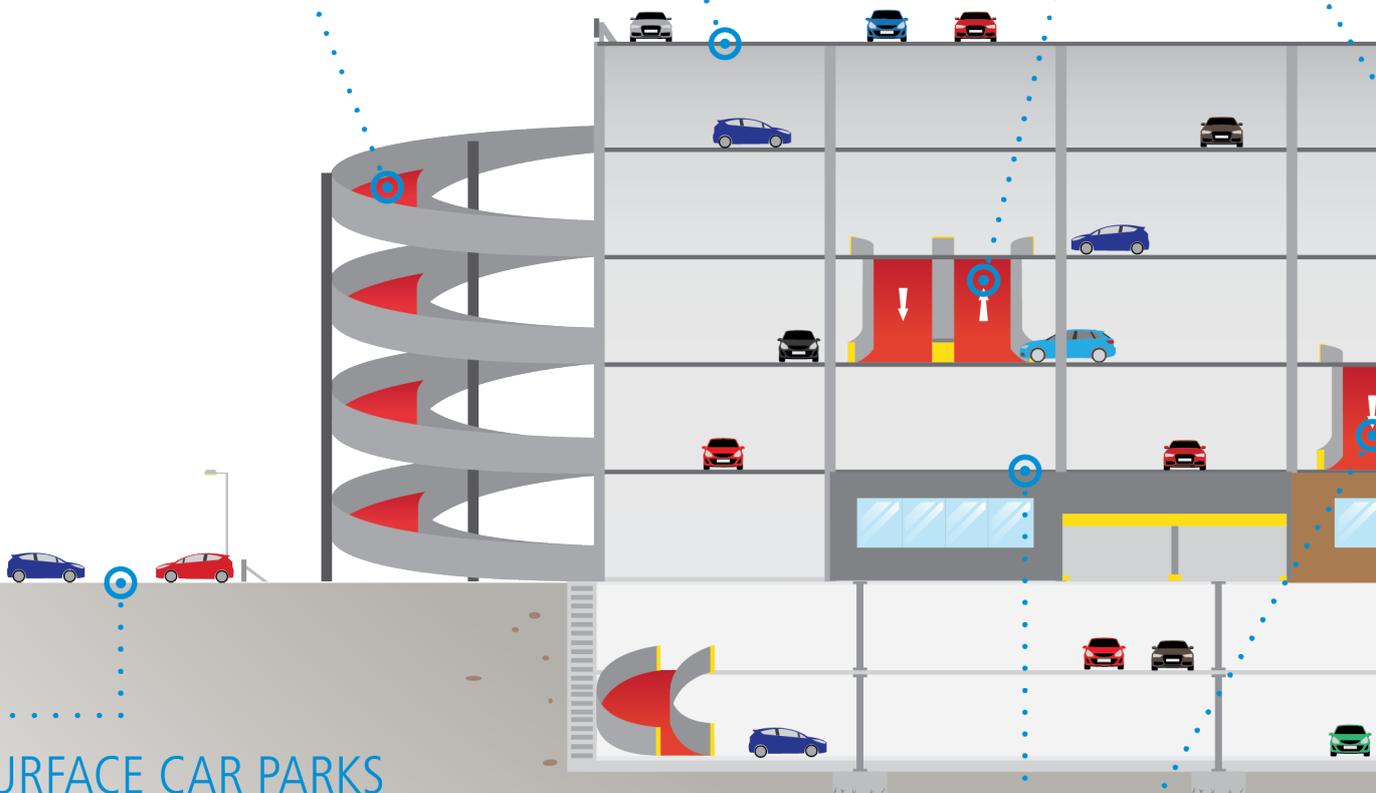
**Dayjoints**

**Levelling**

## INTERNAL DECKS AND RAMPS ABOVE OCCUPIED PREMISES

For all structures including insulated and pre-cast

**Triflex DeckFloor**



## EXTERNAL DECKS AND RAMPS ABOVE OCCUPIED PREMISES

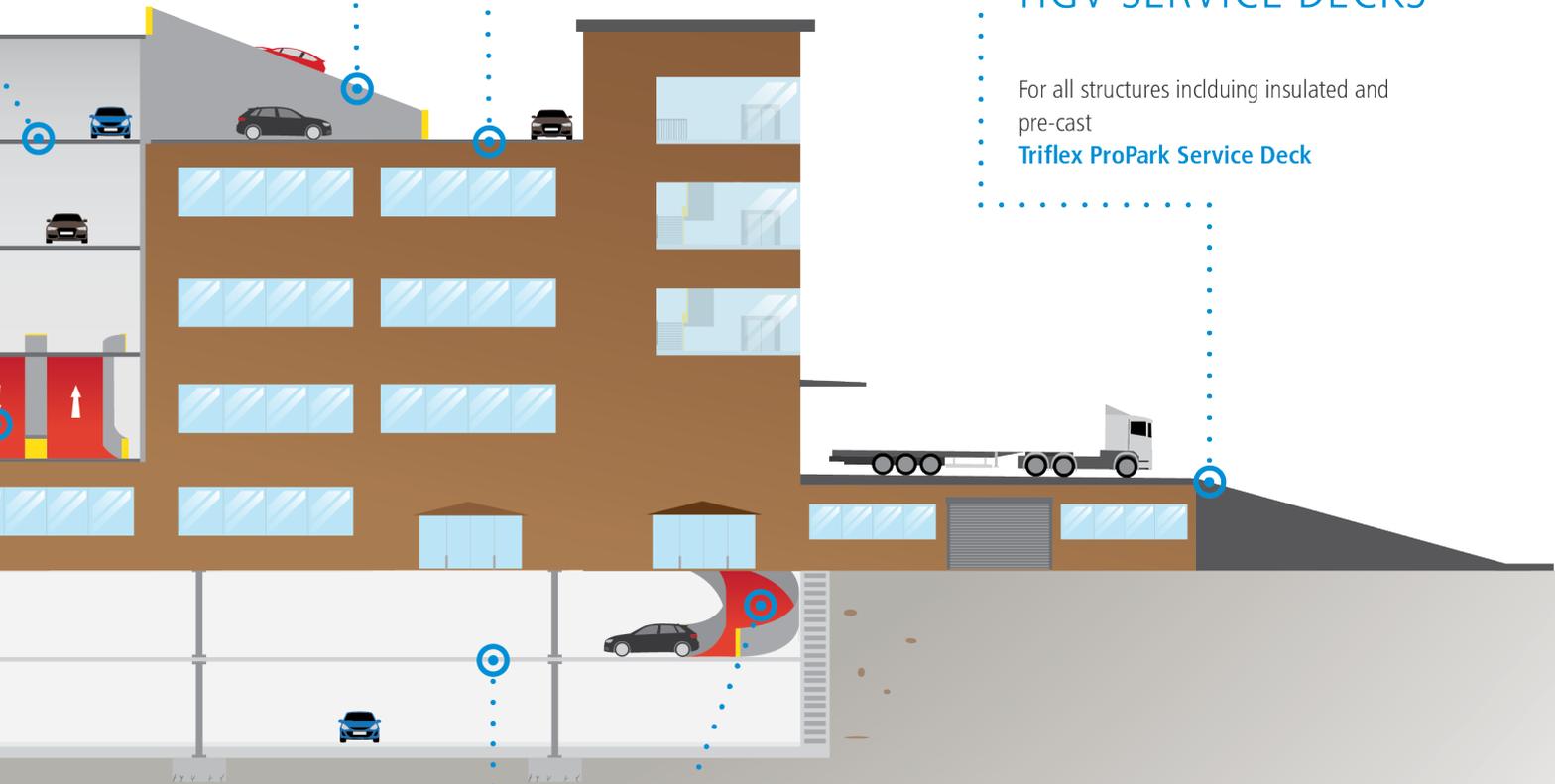
For all structures including  
insulated and pre-cast  
**Triflex ProPark**

## HGV SERVICE DECKS

For all structures including insulated and  
pre-cast  
**Triflex ProPark Service Deck**

## UNDERGROUND DECKS AND RAMPS

For all concrete structures  
**Triflex DeckDefence Epoxy**



# DEDICATED RANGE OF CAR PARK SOLUTIONS

All Triflex systems are solvent free, and as the majority offer exceptionally rapid cure times even at low temperatures, critical works can be completed and opened to traffic sooner, minimising access restrictions, disruption to users and loss of income.

Our systems are compatible with virtually all existing substrates, including concrete, asphalt and steel. With over 2 million m<sup>2</sup> of failed asphalt overlaid in the UK, we have a proven track record of significantly reducing costs, disruption and risks compared to asphalt removal.

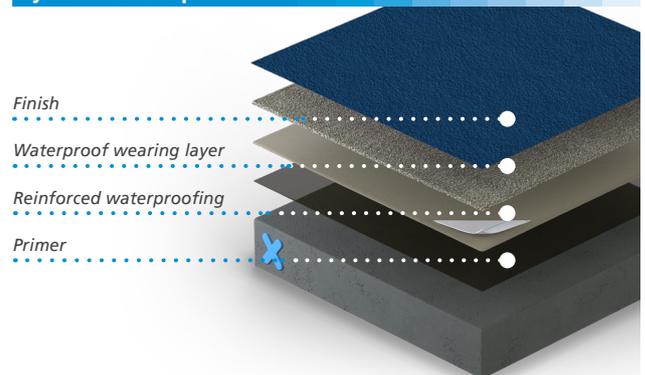
## Triflex ProPark®



EN 1504-2

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 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.

### System build-up



### Advantages at a glance

#### 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 life cycle cost.

#### Asphalt overlay

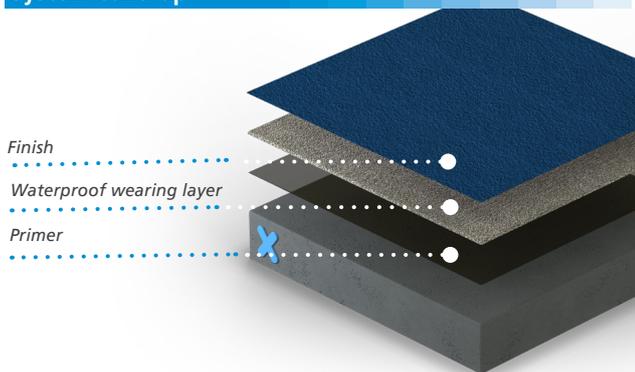
Historically many car parks have been protected with traditional asphalt coverings which over time will fail. With more than 30 years' experience of directly overlaying in excess of 1.5 million m<sup>2</sup> of failed asphalt car parks, Triflex are the industry experts and Triflex ProPark is the industry leading solution for asphalt car parks over occupied premises. In fact, whatever the substrate, Triflex can provide an overlay solution that performs and lasts.

## Triflex DeckFloor

EN 1504-2

To maintain the integrity of any car park structure it is essential that the decks and ramps are protected from water ingress, chlorides (from road salts), chemical attack, and can withstand both long term heavy traffic and extremes of weather. This can only be achieved by using a proven, high performance waterproofing and surfacing system that offers long term structural protection. For car park decks and ramps over parking and internal decks and ramps over occupied spaces, the EN 1504-2 certified Triflex DeckFloor system is the perfect solution. The heavy duty, flexible system utilises market leading PMMA waterproofing technology and incorporates a high tensile strength reinforcement in high risk areas. Used for more than 20 years, Triflex DeckFloor has been proven to extend building life, satisfy health and safety requirements and enhance aesthetics for maximum visual impact.

### System build-up



### Advantages at a glance

#### Tried and tested

Triflex DeckFloor offers a complete waterproofing and surfacing solution for refurbishment and new-build projects that will last for years to come. The Triflex DeckFloor system is not only highly certified and tested to UK and European standards, it has also been successfully installed for more than 20 years.

#### Anti-static solutions

Also available in an anti-static variant featuring resins with unique conductive properties to dissipate static electric charges and eliminate shocks to drivers when touching ticket machine and similar grounded equipment.

#### 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 m<sup>2</sup> of failed asphalt car parks, Triflex are the industry leaders and Triflex DeckFloor is the industry leading solution for exposed asphalt car parks over parking and internal asphalt decks over occupied premises. In fact, whatever the substrate, Triflex can provide an overlay solution that performs and lasts.

#### Rapid curing, cold applied system

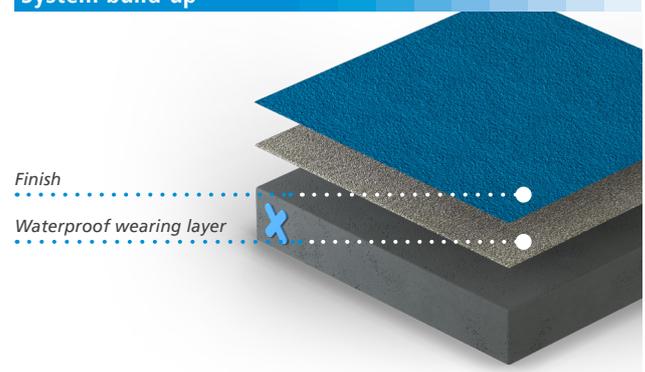
Exceptionally fast curing, Triflex allows car parks to remain open during installation, limiting access restrictions and unnecessary disruptions. Installation can be carried out all year round and the system still cures quickly at temperatures down to 0°C. Ramps and critical areas can be completed overnight and opened the next morning. Unlike asphalt and traditional materials there is also no risk from hot works during installation.

## Triflex DeckCoat

EN 1504-2

Many multi-storey car parks feature internal concrete decks and ramps over parking or ground bearing concrete decks and ramps. While these areas rarely face the same external weather influences as exposed decks, they are subject to significantly higher levels of chloride contamination and abrasion through traffic. Studies show that the worst degradation to the reinforcement in car park structures typically occurs on the lower levels and ramps. It is essential that these decks and ramps are waterproofed, surfaced and protected to ensure the structure is not compromised, and Triflex DeckCoat is the perfect solution. The system features our unique, ultra-fast curing PMMA resin technology that offers significant advantages over rigid epoxy, polyurethane and polyaspartic systems. In combination with the waterproof and durable anti-skid wearing layer, the system can include a reinforced, elastomeric, and dynamic crack bridging waterproofing membrane for higher-risk areas.

### System build-up



### Advantages at a glance

#### Optional locally reinforced, elastomeric waterproofing membrane

Even high risk areas pose no problem for this durable solution, as the system can incorporate an ETA certified fully reinforced, localised waterproofing membrane designed specifically to accommodate the dynamic movement and cracking within parking structures.

#### 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 DeckCoat 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 life cycle cost.

#### Rapid curing, cold applied system

Exceptionally fast curing, Triflex allows 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. There is no risk from hot works during installation as all Triflex materials are applied in totally cold liquid form and a wide range of colours

#### Anti-skid

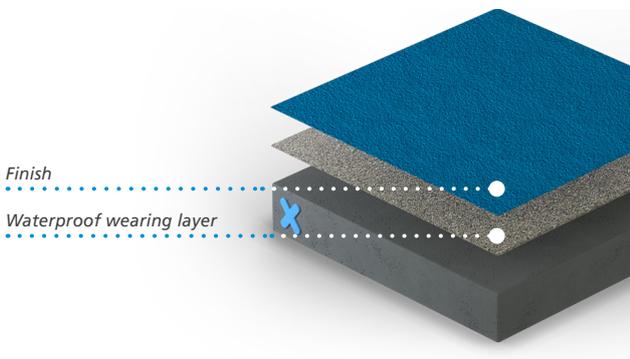
The system offers high levels of long-term skid resistance in wet and dry conditions, providing a safe and secure solution for cars and pedestrians.

## Triflex DeckDefence

### Advantages at a glance

- Locally reinforced with dynamic crack bridging membrane
- Heavy duty, rigid systems
- Maximum colour and design options
- Fully warranted

### System build-up

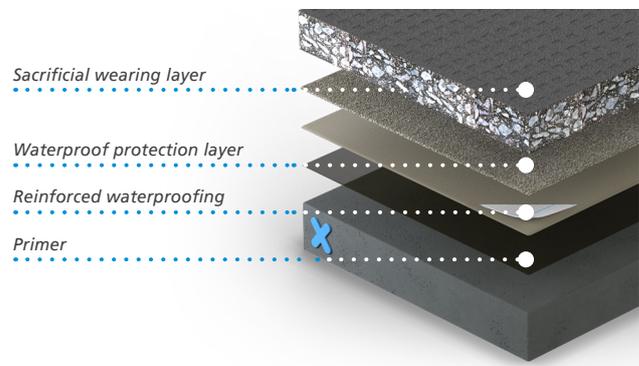


## Triflex ProPark Service Deck

### Advantages at a glance

- Designed for new build, refurbishment and to overlay existing asphalt
- ETA certified elastomeric and dynamic crack bridging membrane
- Designed to be overlaid with asphalt at up to 250°C
- Proven UK service deck performance
- Fully warranted

### System build-up

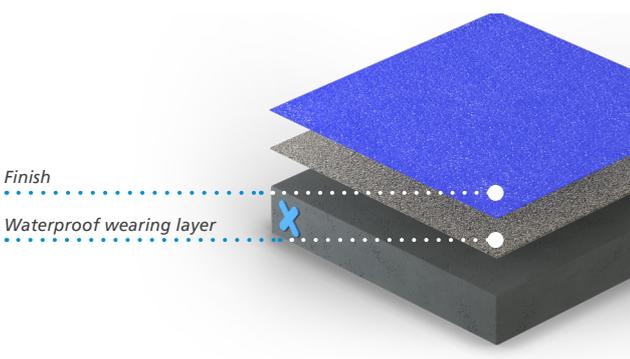


## Triflex DeckDefence Epoxy

### Advantages at a glance

- Designed for fully enclosed or underground car parks
- Locally reinforced with dynamic crack bridging membrane
- Heavy duty, rigid systems
- Maximum colour and design options
- Fully warranted

### System build-up



Continuing Professional Development (CPD)

# Creative car parks

Cold liquid applied waterproofing and protection systems have enjoyed significant growth in recent years. From our position as European market leaders and with over 40 years' experience we are pleased to offer CPD seminars to introduce you to their benefits.

Presented by our experienced Business Development team, our presentations provide insight into the benefits of cold liquid applied technology and why it is now the preferred solution for both refurbishment and new build applications.

Three keys to success

**Easy project delivery, seamless waterproofing and protection, certified to the highest standards.**

The reasons to specify Triflex are plain to see, but our Creative car park CPD will help to answer any questions and explain why Triflex are market leaders in waterproofing, surfacing, protection and marking systems for car parks.

### Agenda overview

- A little about us
- Why look after your car park
- Our solutions
- Technical insight
- Common problems
- Solutions in action
- Questions and answers

Triflex technical seminars last approximately 45 minutes to 1 hour in duration and can be conducted at a time and place suitable to you and your colleagues. All attendees will receive a certificate confirming attendance and a full suite of Triflex literature. Sample swatches are also available on request.



**Long term protection for structural integrity.** Cold liquid applied waterproofing and protection systems help to protect against weathering, wear, mechanical damage, chemical attack and more.



**On-site services** including; site surveying, testing and site reports. Helping to create the right specification and ensuring that it is expertly delivered for a successful project delivery through our nationwide network of Authorised Installers.



**Say goodbye** to poor markings and unclear directional signage, and with an exceptional colour range design opportunities become almost unlimited.

Register online at [triflex.co.uk](http://triflex.co.uk)

# EVEN MORE SOLUTIONS FROM TRIFLEX.

Reliable and lasting waterproofing

## Solutions for roofs and roof details

With Triflex roofing systems, you have a solution that can handle even the most difficult requirements easily. Our fully reinforced, cold liquid applied systems ensure that all surfaces and complicated details are reliably waterproofed for the long term. Our high quality products, impeccable track record, dedicated technical support and 40 years' experience, make Triflex the ideal choice to deliver your roofing project.

### ADVANTAGES AT A GLANCE

- Fully reinforced waterproofing of all areas including details
- Fast-curing, cold liquid applied, fully certified waterproofing
- No hot works, with the highest UK fire rating once installed
- Problem-free adhesion even on unusual and challenging substrates
- The perfect solution for refurbishment



Reference  
project  
**Rainham School  
for Girls**  
Location:  
Gillingham, Kent  
Area: 1,576m<sup>2</sup>

Fast, attractive, long-lasting

## Solutions for walkways, balconies & terraces

Our walkway, balcony and terrace systems meet the highest demands for functionality and design, and can be used both in new builds and in refurbishments. They are quick to apply, enable short renovation times and offer a wide selection of colours and surface finishes. This broad range of long-lasting solutions ensures satisfied clients and tenants.

Further applications

## Solutions for energy, industry and infrastructure

Whatever the project, we have a range of specifically engineered waterproofing and coating systems to suit your needs. We can provide solutions for almost any application, from the protection of equipment rooms and water management facilities to wind turbine foundation waterproofing.

### ADVANTAGES AT A GLANCE

- Waterproofing, surfacing and coating in a single day
- Applies seamlessly to any structural form
- Reliable detail and joint waterproofing
- UV and fire resistant
- Non-slip surface

### ADVANTAGES AT A GLANCE

- Long lasting and reliable waterproofing
- UV and fire resistant
- Aesthetically pleasing and high quality
- Compatible with almost any substrate



Reference project  
**Meadfoot beach chalets**  
Location: Torquay  
Area: 550m<sup>2</sup>



Reference project  
**Tween bridge wind farm**  
Location: Doncaster  
Area: 22 turbines

# Triflex

Delivering solutions together.

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