



System overview

Triflex DeckCoat

The majority of multi-storey car parks feature internal concrete decks and ramps over parking or ground bearing concrete decks and ramps. While these areas are generally not exposed to the same external weather influences as exposed decks, they are generally subject to significantly higher levels of chloride contamination and abrasion through traffic. Studies have shown that the worst degradation to the reinforcement in car park structures typically occurs on the lower levels and lower ramps of car parks. 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 installation advantages over rigid epoxy, polyurethane and polyaspartic systems. In combination with the waterproof and durable anti-skid wearing layer, the system can also include a reinforced, elastomeric and dynamic crack bridging waterproofing membrane for high risk areas.



System highlights

Rapid installation

With a self priming coating layer (subject to testing) the system can be installed in a simple, two process application, saving time on site and increasing productivity.

Optional locally reinforced, elastomeric waterproofing membrane

Even high risk areas pose no problem for this durable solution, as the system can incorporate a 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.

Tried and tested

Triflex DeckCoat offers a complete waterproof, protective coating solution for refurbishment and new-build projects that will last for years to come. The Triflex DeckCoat system is not only highly certified and tested to UK and European standards, it has also been successfully installed for more than 15 years in projects across the globe.

Rapid curing, cold applied system

Exceptionally fast curing, Triflex systems allow 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 a totally cold liquid form, quickly curing to create a solution that lasts.

Anti-skid

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

Application areas

- Internal concrete car park decks and ramps over parking
- Ground bearing concrete car park decks and ramps

Suitable for

- Refurbishment
- New build

Compatible substrates

- Concrete, concrete repair materials and screeds
- Existing membranes

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

Approvals

Certified to the highest UK and European standards and classifications, including:

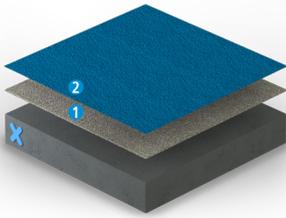
CE EN 1504-2 certified (full system)

- 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

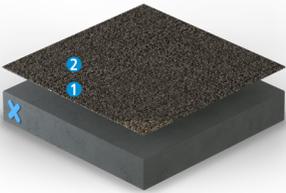


Layer	Product	Consumption ⁽¹⁾	Aggregate / Broadcast	Overcoat / traffic ⁽²⁾
1 Waterproof wearing layer	Decks: Triflex Cryl RS 246 Ramps: Triflex Cryl RS 246 Thixo	2.40Kg/m ²	Quartz: 6.00Kg/m ²	1 hour
2 Finish	Triflex Cryl Finish 209	0.55Kg/m ²	-	Foot traffic: 1 hour Vehicle traffic: 2 hours

⁽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 Waterproof wearing layer	Decks: Triflex Cryl RS 246 (Black - 9005) Ramps: Triflex Cryl RS 246 Thixo (Black - 9005)	2.40Kg/m ²	Emery: 7.00Kg/m ²	1 hour
2 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.

Without primer:

CE	
0770	
Triflex GmbH & Co. KG Karlstraße 59, 32 423 Minden Germany	
12	
12 -2333-01-01/06	
EN 1504-2: ZA.1f and ZA.1g	
Car park waterproofing and surfacing system Triflex DCS-C (DeckCoat) Variation 1	
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	≥ 2,0 N/mm ²
Resistance to thermal shock / thermal compatibility	≥ 2,0 N/mm ²
Resistance to severe chemical attack	Class I, 3 d without pressure
Reaction to fire after application	Cfl-s1
Skid resistance	Class III
Impact resistance	Class I

With primer:

CE	
0770	
Triflex GmbH & Co. KG Karlstraße 59, 32 423 Minden Germany	
12	
12 -2333-01-01/07	
EN 1504-2: ZA.1f and ZA.1g	
Car park waterproofing and surfacing system Triflex DCS-C (DeckCoat) Variation 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	≥ 2,0 N/mm ²
Resistance to thermal shock / thermal compatibility	≥ 2,0 N/mm ²
Resistance to severe chemical attack	Class I, 3 d without pressure
Reaction to fire after application	Cfl-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 0.4 - 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. 90 (Four S rubber / Slider 96)
 - PTV approx. 95 (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 DeckCoat

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

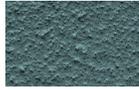
Triflex DeckCoat finish colours



7016 Anthracite grey



7030 Stone grey



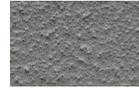
7031 Blue grey



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

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