



System overview

Triflex DeckFloor

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 such as slip and skid resistance and enhance aesthetics for maximum visual impact.



System highlights

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 DeckFloor 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.

Dynamic crack bridging, locally reinforced waterproofing

Even high risk areas pose no problem for this hard wearing solution, as the system incorporates a fully reinforced, localised waterproofing membrane designed specifically to accommodate movement and cracking within parking structures.

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 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.

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.

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.

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

- External car park decks and ramps over parking
- Internal car park decks and ramps over occupied premises and over parking
- Ground bearing car park decks and ramps

Suitable for

- Refurbishment
- New build
- Overlay of existing failed waterproofing systems
- Overlay of undercover 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 (undercover)

Approvals

Fully certified to the highest UK and European standards and classifications, including:

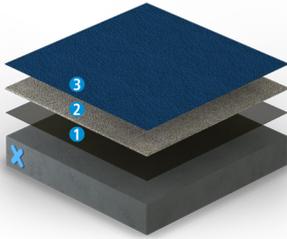


- Fire performance:
 - EN 13501-1

Manufacturer certification

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

System build-up and consumptions - Quartz

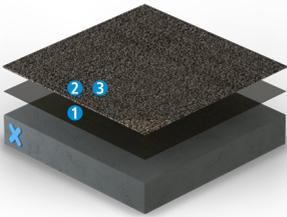


Layer	Product	Consumption ⁽¹⁾	Aggregate / Broadcast	Overcoat / traffic ⁽²⁾
1 Primers	Triflex Cryl Primer 222 / 276 / 287 / 280 White	0.40Kg/m ²	-	45 minutes
2 Waterproof wearing layer	Decks :Triflex DeckFloor RS Ramps: Triflex DeckFloor RS Thixo	4.00 - 4.50Kg/m ²	Quartz: 6.00Kg/m ²	1 hour
3 Finish	Triflex Cryl Finish 209	0.55 - 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 Waterproof wearing layer	Decks :Triflex DeckFloor RS (Black - 9005) Ramps: Triflex DeckFloor RS Thixo (Black - 9005)	4.00 - 4.50Kg/m ²	Emery: 7.00Kg/m ²	1 hour
3 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.

CE	
0770	
Triflex GmbH & Co. KG Karlstraße 59, 32 423 Minden Germany	
12	
12-2333-01-01/02/03	
EN 1504-2: ZA.1f and ZA.1g	
Car park waterproofing and surfacing system Triflex DeckFloor variation 1	
Abrasion resistance	≤ 3000mg
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	A1 (-10°C)
Reaction to fire after application	C _{fl} -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 0.4 - 1.2mm quartz:
 - PTV approx. 73 (Four S rubber / Slider 96)
 - PTV approx. 70 (TRRL rubber / Slider 55)
- With 1.0 - 3.00mm emery:
 - PTV approx. 97 (Four S rubber / Slider 96)
 - PTV approx. 86 (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 DeckFloor

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

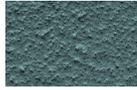
Triflex DeckFloor finish colours



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