

Case Study

Project/customer name:	Preston bus station
Year of application:	2017
Location/country:	Preston / UK
Building type:	Multi-story carpark
Authorized contractor:	Makers Construction Limited
Additional project details:	Must be overlaid on existing surface, be highly chemically resistant and have good anti-skid properties

General view:



Challenge:

- The bus station has undergone a multi-million-pound repair, renovation and modernization scheme to create a vibrant public space.
- A survey of the carpark established that the decks had suffered from years of heavy traffic, leaving the decks worn and bearing cracks, blisters and ruckling. In some cases, attempted repair works had been carried out which, unfortunately, had also failed.
- A solution must provide the ability to directly overlay the existing substrate in order to prevent any damage to below stores, loss of working hours and minimize overall costs.
- It must also be highly chemical resistant and have good anti-skid properties.



Solution:

- Triflex DeckFloor and DeckFloor Ramp systems were the ideal solution for this car park as they not only met the criteria for direct asphalt overlay but also provided the deck structure with high levels of resistance to chemicals commonly found in the car park environment namely; petrol, diesel and motor oil.
- Moreover, the high levels of anti-skid properties of the system would provide a safer environment for pedestrians and vehicles alike. Triflex DeckFloor Ramp also incorporates the use of emery within its system.



Products used at a glance:

Triflex offers liquid PMMA* based resins (e.g. ProDetail for details or ProTect for areas):

1. Substrate
2. Primer, if necessary
3. Waterproofing layers
 - a) Triflex ProDetail (2kg / sqm)
 - b) Triflex Special Fleece
 - c) Triflex ProDetail (1 kg / sqm)
4. Finish, if wanted

* Polymethyl methacrylate



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Main benefits (European Guideline ETAG 005):

- 25 years estimated working life performance
- Fast curing time and rainproof after only 30 minutes
- Application possible till humidity of 99% and withstands surface temperature after application up to 90° C
- A liquid seamless solution that fits to any structure with complex geometry
- Adherence to any surfaces (Aluminum, steel, plastic, glass, bitumen, concrete, ...)
- Solvent free, environmental friendly and with no risk to health
- High resistance to chemicals, roots and rhizome, alkali and hydrolysis
- Cold application with no flame and flame retardant
- Highly UV resistant (1000 MJ/m² = 325 days)
- Easy to impose loads after application (for particular demands as green roofs)