

Case Study

Project/customer name:	Tick hill road
Year of application:	2017
Location/country:	Rotherham / UK
Building type:	Commercial building
Authorized contractor:	NRA Roofing & Flooring Services Ltd.
Additional project details:	Refurbishment

General view:



Challenge:

- The building required a total roof refurbishment after the existing asphalt had reached the end of its working life causing water ingress, which would cause further water damage to the stores below.
- The customer required a solution which would provide a strong, waterproof finish to all aspects of the roof including tricky details.
- The roof in particular was sandwiched between two gable ends, and required a solution that could be applied to complex areas, maintaining water tightness.



Solution:

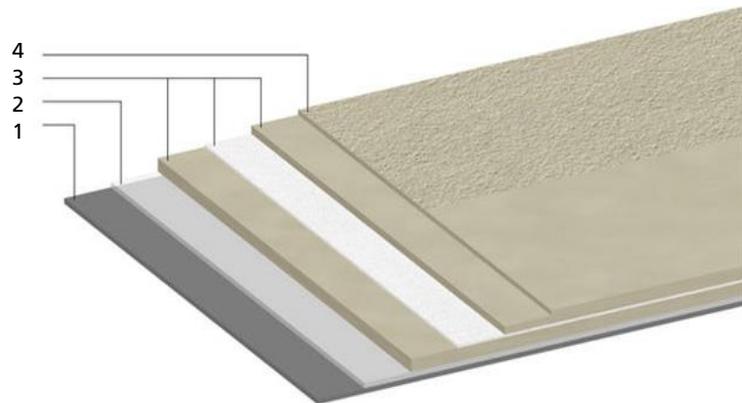
- A test revealed that the roof had numerous historical repairs that had been completed using both traditional and more modern materials.
- Triflex ProTect was used, because it is compatible with virtually all substrates, allowing it to be applied directly onto existing surfaces. However, when a previous roofing system has fundamental damage as in this case, it is best to remove it.
- The Triflex solution also contained Triflex ProDetail and ProFibre for the complex details. ProFibre has a thixotropic formulation which allows it to be used on flat, vertical and even inverted surfaces.



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

Continually improved over 40 years in order to become the market leader in Europe.



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)