

Case Study

Project/customer name:	Riverbank, Staines-upon-Thames
Year of application:	2019
Location/country:	Staines-upon-Thames / UK
Building type:	Social housing blocks
Authorized contractor:	Ifield and Barrett
Additional project details:	Wet-on-wet application process

General view:



Challenge:

- The roof system consisted of a bituminous mineral felt waterproofing membrane, cork board insulation, vapor control layer, cementitious screed and a concrete deck.
- An initial site survey was conducted, and it was found that the existing bitumen felt system had reached the end of its serviceable life. It was clear due to many liquid coating remedial repairs, that the roofs had a history of moisture ingress.
- Core samples revealed that the cork board insulation was saturated due to failure of the existing system and would require replacement



Solution:

- Triflex ProTect was the specified main area waterproofing system and Triflex ProDetail was specified for all detailing works, including gutters, penetrations, pipes and upstands.
- Triflex ProTect is fully compatible with the specified 130mm Triflex PIR insulation, ensuring a strong bond and total adhesion.
- Regulations and achieved the $0.18 \text{ W/m}^2 \text{ K}$ U-value requirements. Both Triflex ProTect and Triflex ProDetail are installed utilizing a wet-on-wet application process, minimizing time on-site and cost. Also color finish was applied.

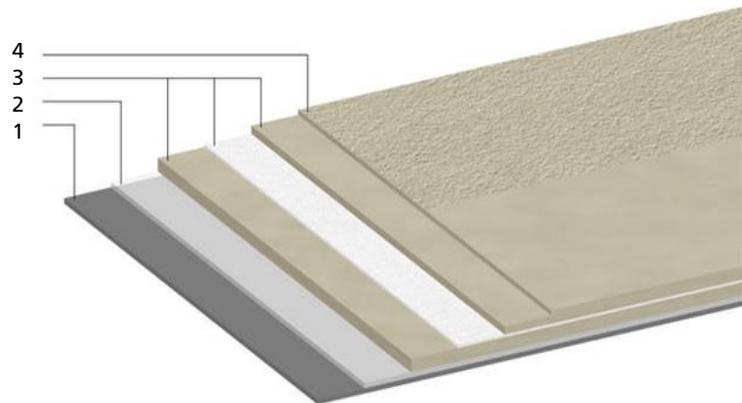


Products used at a glance:

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)