

TRICEL
GENERATIONS OF INNOVATION

CASE STUDY

Fire-Rated TriRoof FLEX Overlay, Installed in One Week

How Connolly Fibreglass and TriRoof waterproofed 240 m² of flat roof for Finol Oils

Project Information

Customer: Finol Oils

Roofing Contractor: Connolly Fibreglass

Project: 240 m² liquid overlay to an existing concrete and asphalt flat roof

Requirement: A fully fire-rated roofing system

System: TriRoof FLEX liquid overlay, reinforced with 225 g chopped strand mat

Programme: Completed over the course of one week

The Solution

TriRoof FLEX was selected for its BROOF(t4) fire rating, meeting the customer's requirement for a full fire-rated system without stripping out the existing deck.

The specification:

- TriRoof FLEX liquid overlay
- TriRoof Primer
- 225 g chopped strand mat reinforcement

The outcome:

- Fully reinforced waterproof overlay across 240 m²
- BROOF(t4) fire rating
- 20-year materials guarantee
- Installed in one week

An Overlay, Not a Strip-Out

Finol Oils needed an ageing flat roof brought back into serviceable condition, and the replacement had to be fully fire-rated. Rather than strip the roof back, Connolly Fibreglass was contracted to overlay the full 240 m² using the TriRoof FLEX liquid system. The existing concrete and asphalt substrate was retained, removing the cost and disruption of a tear-off, and the finished roof carries a 20-year materials guarantee.

A ROOF AT THE END OF ITS SERVICE LIFE

The existing roof was a concrete and asphalt build-up that had reached the end of its serviceable life. Before any product went on, the deck was jet power washed and cleaned down, and all necessary remedial works were completed.

Roof-mounted equipment and cable runs crossed the area to be covered, so every upstand, parapet and penetration had to be brought into the new waterproofing rather than worked around.



The existing concrete and asphalt roof prior to preparation.

WHY A FIRE-RATED SYSTEM

The customer required a full fire-rated system. TriRoof FLEX was selected on that basis, for its BROOF(t4) fire rating.



Because FLEX is applied as a liquid, it could be laid straight over the prepared substrate. The existing build-up stayed in place, there was no tear-off to remove from a working site, and the roof was reinstated as a single continuous reinforced membrane.

"We look for quality that lasts in everything we invest in, and TriRoof FLEX was no different. It's a genuinely robust system, backed by a serious guarantee, and the finish speaks for itself. It was a straightforward, well-managed job from a team who clearly know what they're doing."

Sean Holland
Managing Director, Finol Oils



240 m²

overlaid in a single
reinforced membrane

1 week

on site, start
to finish

20 years

materials
guarantee



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PREPARATION AND INSTALLATION

One week on site, start to finish



The existing concrete and asphalt substrate was jet power washed and cleaned, with all necessary remedial works completed prior to application. The system was then primed with TriRoof Primer. Once the primer had cured, TriRoof FLEX was applied and reinforced with 225 g chopped strand mat, delivering a durable, long-lasting finish across the full 240 m².

- **Clean:** jet power wash and full clean-down of the existing concrete and asphalt substrate
- **Repair:** all necessary remedial works completed prior to application
- **Prime:** TriRoof Primer applied and left to cure
- **Waterproof:** TriRoof FLEX applied and reinforced with 225 g chopped strand mat



The system specification

PRODUCT	ROLE IN THE SYSTEM
TriRoof FLEX	Liquid-applied overlay membrane, selected for its BROOF(t4) fire rating.
TriRoof Primer	Applied to the prepared concrete and asphalt substrate and left to cure before overlay.
225 g Chopped Strand Mat	Full reinforcement throughout, forming a single continuous membrane across the deck, upstands and parapet.





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THE RESULT

A roof sealed as one continuous surface

Coverage

The full 240 m² reinstated as a single reinforced membrane, with upstands, parapet and penetrations brought into the same system.

Fire performance

The customer's requirement for a full fire-rated system met through the BROOF(t4) rating of TriRoof FLEX.

Guarantee

Backed by a 20-year materials guarantee.

Programme

The full installation completed successfully over the course of one week, with the existing substrate retained and no tear-off to remove from site.

Why a liquid overlay: no strip-out, nothing to send to landfill, and every upstand, outlet and penetration sealed as part of the same membrane.



The completed TriRoof FLEX overlay across the deck, upstands and parapet.



"I've been using the FLEX overlay for years – whether it's overlaying over felt, asphalt, concrete, commercial or domestic, or a new roof, it's my go-to liquid roofing system."

Alan Connolly
Connolly Fibreglass



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A PROVEN OVERLAY SYSTEM

TriRoof FLEX gave Finol Oils a fire-rated, fully reinforced roof without the cost, waste and disruption of stripping the existing deck. For Connolly Fibreglass, the liquid system meant the whole area – open deck, upstands, parapet and every penetration – could be treated as one surface and completed inside a week.



PLANNING A FLAT ROOF REFURBISHMENT?

TriRoof liquid systems are designed to overlay existing flat roofs where a strip-out is not practical. Talk to us about specification, fire performance and guarantee options for your project.

CONTACT

Tricel Composites (NI) Limited

Unit 4, Milltown Ind. Est., Greenan Rd,
Warrenpoint, Newry, Co. Down, BT34 3FN, UK
Tel: +44 (0)28 4175 3738
Email: webquery@tricelcomposites.ie

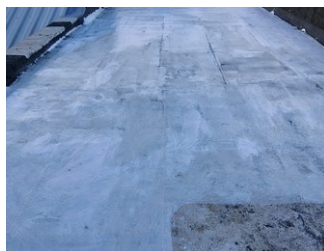
Tricel Composites (GB) Limited

Unit A, Fox Way, Leeds,
West Yorkshire, LS10 1PS, UK
Tel: +44 (0)113 270 3133
Email: webquery@tricelcomposites.co.uk

THE PROJECT AT A GLANCE



Existing roof



Primed



FLEX and mat applied



Completed